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National Aeronautics
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SUMMARY

An investigation was conducted in the Langley Transonic Dynamics Tunnel to evaluate a passive means of tailoring helicopter rotor blades to improve performance and reduce loads. The parameters investigated were blade torsional stiffness, blade section camber, and distance between blade structural elastic axis and blade-tip aerodynamic center. This offset was accomplished by sweeping the tip. The investigation was conducted at advance ratios of 0.20, 0.30, and 0.40. Data are presented without analysis; however, cross-referencing of performance data and harmonic-loads data may be useful to the analyst for validating aeroelastic theories and design methodologies as well as for evaluating passive aeroelastic tailoring of rotor blade parameters.

INTRODUCTION

During high-speed helicopter flight, rotor operating limitations often result from unfavorable spanwise and azimuthal air-load distributions. As forward speed of the helicopter increases, the rotor disk is asymmetrically loaded because of differences in relative velocity encountered around the azimuth by the blades. Blade sections on the advancing side of the disk undergo compressibility effects, whereas blade sections on the retreating side of the disk may undergo stall effects. To increase forward-flight efficiency while maintaining hover efficiency, designers have built in blade twist, used advanced airfoil sections, and changed solidity to improve overall rotor air-load distribution. These efforts have resulted in compromises that affect hover and forward-flight performance. For example, large amounts of twist applied to increase hover efficiency can result in limitations on forward flight such as high flapwise stresses on blades (ref. 1).

In an attempt to avoid restrictions of fixed-geometry blades, conformable-rotor concepts have been considered. Initially, these rotors were designed with active control mechanisms (refs. 1 to 3) in an attempt to tailor the rotor for increased performance or reduced loads in all flight regimes. The active control systems, however, tend to be complex, costly, and unreliable. To avoid these limitations, passive means of tailoring the rotor blades have been investigated (refs. 4 to 7). These passive rotor concepts are usually designed to allow the blade to adapt to an operating condition by means of favorable dynamic twist, thereby improving performance and reducing loads.

An investigation was conducted in the Langley Transonic Dynamics Tunnel to evaluate a passive means of tailoring rotor blades to improve performance and reduce loads. The parameters investigated were blade torsional stiffness, blade section camber, and distance between the blade structural elastic axis and the blade-tip aerodynamic center. This offset was accomplished by sweeping the tip. Configurations involving blades with reduced torsional stiffness are referred to in this report as aeroelastically conformable rotors (ACR). The investigation was conducted at advance ratios of 0.20, 0.30, and 0.40. Data are presented without analysis.

SYMBOLS

The positive directions of forces, angles, and velocities are shown in figure 1. The symbols in parentheses are used in the computer-generated data tables.

| | | |
|------------|---------|--|
| A_n | (AMP) | amplitude of nth harmonic of blade or pitch link load, in-lb or lb |
| A_0 | (MEAN) | mean value of Fourier analysis of blade or pitch link load, in-lb or lb |
| A_1 | (A1) | rotor first-harmonic lateral cyclic pitch angle, deg |
| a | | speed of sound, ft/sec |
| B_1 | (B1) | rotor first-harmonic longitudinal cyclic pitch angle, deg |
| b | | number of blades |
| C_D | (CD) | rotor drag coefficient, $\frac{D}{\rho \pi R^2 (\Omega R)^2}$ |
| C_L | (CL) | rotor lift coefficient, $\frac{L}{\rho \pi R^2 (\Omega R)^2}$ |
| C_Q | (CQ) | rotor torque coefficient, $\frac{Q}{\rho \pi R^3 (\Omega R)^2}$ |
| c | | nominal blade chord, 3.625 in. |
| D | | rotor drag, lb |
| L | | rotor lift, lb |
| M_T | | rotor tip Mach number, $\frac{\Omega R}{a}$ |
| Q | | rotor shaft torque, in-lb |
| R | | rotor radius, 58.8 in. |
| | (RPM) | rotor rotational velocity, revolutions per minute |
| r | | spanwise distance along blade radius measured from center of rotation, in. |
| V | | free-stream velocity, ft/sec |
| α_s | (ALPHA) | rotor shaft angle of attack, deg |
| θ | (THETA) | rotor blade collective pitch angle at 0.75R, deg |
| θ_1 | | twist angle built into rotor blade, positive for nose-up, deg |
| μ | | rotor advance ratio, $\frac{V}{\Omega R}$ |

| | | |
|----------|---------|--|
| ρ | | test-medium mass density, slugs/ft ³ |
| σ | (SIGMA) | rotor solidity, $\frac{bc}{\pi R} = 0.0785$ |
| ϕ_n | (PHASE) | phase angle of nth harmonic of blade or pitch link load, deg |
| ψ | | rotor blade azimuth angle, deg |
| Ω | | rotor rotational velocity, rad/sec |
| ω | | natural frequency of rotating blade mode, rad/sec |

APPARATUS AND PROCEDURES

Wind Tunnel

The experiment was conducted in the Langley Transonic Dynamics Tunnel (TDT). A schematic of the TDT is shown in figure 2. The TDT is a continuous-flow tunnel with a slotted test section and is capable of operation up to Mach 1.2 at stagnation pressures up to 1 atm. The tunnel test section is 16 ft square with cropped corners and has a cross-sectional area of 248 ft². Either air or Freon 12¹ may be used as a test medium. For this investigation, Freon 12 at a nominal density of 0.006 slug/ft³ was used as the test medium. Because of its high density and low speed of sound, the use of Freon 12 aids the matching of model-rotor-scale Reynolds number and Mach number to full-scale values. Furthermore, some restrictions on model structural design are eased, and dynamic similarity is still maintained. The heavier test medium permits a simplified structural design to obtain the required stiffness characteristics, and thus eases design and fabrication requirements of the model (ref. 8).

Model Description

The rotor model used in this investigation was a 0.182-scale, four-bladed, articulated rotor with coincident lead-lag and flapping hinges. The hub operated with a pitch-flap coupling ratio of 0.5 (flap up, pitch down). The attachment point of the blade pitch link was 1.4 in. aft of the blade pitch axis. The blade geometry and built-in twist distribution are shown in figure 3. The blades were designed such that changes to the tip configuration could be made at the 85-percent-radius station. Two tip configurations, a rectangular and a swept tip, were tested during this investigation. The geometry of these tips is shown in figure 4. The two sets of blades used during this investigation were Mach-scaled and differed only in torsional stiffness. The structural properties and rotating natural frequencies of the two blade sets are presented in tables I and II. Each set of blades was composed of an SC 1095 airfoil from the root cutout to 47 percent radius and from 91 percent radius to the tip. Between 48 and 90 percent radius, a cambered SC 1095-R8 airfoil was used. The regions between 47 and 48 percent radius and 90 and 91 percent radius were used to transition between the two airfoils. Between 48 and 83 percent radius, each blade was also equipped with 20 adjustable trailing-edge tabs, 6.5-percent-chord wide each, which could be used to change the local blade section camber. One blade of

¹Freon: Registered trademark of E. I. du Pont de Nemours & Co., Inc.

each set was instrumented with resistance-wire strain-gage bridges calibrated to measure blade structural moments about three axes at several blade radial stations. Flapwise (out-of-plane) moments and chordwise (in-plane) moments were measured at 25, 37, 51, and 77 percent radius, whereas torsional moments were measured at 28, 36, 50, and 75 percent radius.

The blades were tested using the aeroelastic rotor experimental system (ARES) shown in figures 5 and 6. The ARES has a streamlined helicopter fuselage shape enclosing the rotor controls and drive system. The ARES is powered by a variable frequency synchronous motor rated at 47-hp output at 12 000 rpm. The motor is connected to the rotor shaft through a belt-driven two-stage speed reduction system. The ARES rotor control system and rotor shaft angle of attack are remotely controlled from the wind-tunnel control room. The model rotor shaft angle of attack is varied by an electrically controlled hydraulic actuator. Blade collective pitch and lateral and longitudinal cyclic pitch are input to the rotor through the swashplate. The swashplate is moved by three hydraulic actuators.

Instrumentation on the ARES allows continuous displays of model control settings, rotor forces and moments, blade loads, and pitch link loads. The ARES rotor shaft pitch attitude is measured by an accelerometer, and rotor control positions are measured by linear potentiometers connected to the swashplate. Rotor blade flapping and lagging are measured by rotary potentiometers mounted on the rotor hub and geared to the blade cuff. Rotor shaft speed is determined by a magnetic sensor. The rotating blade data are transferred through a 30-channel slip-ring assembly. Rotor forces and moments are measured by a six-component strain-gage balance mounted below the pylon and drive system. The balance is fixed with respect to the rotor shaft and pitches with the fuselage. Fuselage forces and moments are not sensed by the balance.

Test Procedure

At each test point, the rotor rotational speed and tunnel conditions were adjusted to give the desired values of tip Mach number and advance ratio. The model was then pitched to the desired shaft angle of attack. Blade collective pitch was changed to obtain variations in rotor lift. At each collective pitch setting, the cyclic pitch was used to remove rotor first-harmonic flapping with respect to the rotor shaft. Data were then recorded at each value of collective pitch. The maximum value of collective pitch attained at each shaft angle of attack was determined in most cases by either blade load limits or ARES drive system limits. Rotor aerodynamic performance and blade loads were measured at advance ratios of 0.20, 0.30, and 0.40 for shaft angles of attack from 5° to -15° and a rotational tip Mach number of 0.65. Data were also obtained at advance ratios of 0.30 and 0.40 for rotational tip Mach numbers of 0.62 and 0.68.

Model deadweight tares were determined throughout the range of shaft angles of attack with the blades on and with them removed. Aerodynamic rotor hub tares were determined with the blades removed throughout the ranges of shaft angles of attack and advance ratios investigated. Both deadweight and aerodynamic hub tares have been removed from the data presented herein.

PRESENTATION OF RESULTS

The rotor performance and loads data obtained during this investigation are presented in both figures and tables. Rotor performance is presented as plots of C_L/σ versus C_D/σ and C_L/σ versus C_Q/σ for each combination of advance ratio μ and rotor tip Mach number M_T for each rotor configuration. These rotor performance parameters ($CL/SIGMA$, $CD/SIGMA$, and $CQ/SIGMA$) are also presented in tabular form along with the corresponding rotor control angles A_1 , B_1 , and θ ($A1$, $B1$, and $THETA$).. Each plotted and tabulated data point is identified by a specific test run number and point number. For example, point 213 of run 9 is indicated as 9.213 in the plots. The rotor loads data are presented in tabular form for each combination of μ and M_T for each rotor configuration and consist of the mean (MEAN), oscillatory (1/2 peak to peak (1/2 P-P)), and first eight harmonics (1P to 8P) of a Fourier analysis of the instrumented blade strain-gage signals. Pitch link loads are also presented. The loads data, like the performance data, are identified by a specific test run number and point number. This allows cross-referencing of loads and performance data. The amplitudes (AMP) of the blade flapwise, chordwise, and torsion loads are presented in inch-pounds, and the amplitude of the pitch link loads is presented in pounds. The amplitudes of all phase angles (PHASE) are presented in degrees referenced in the direction of rotor rotation from 0° over the tail of the model. The sign conventions for the blade loads data are as follows: flapwise up, positive; chordwise aft, positive; torsion blade nose-up, positive; and pitch link load for a tension load, positive. The total blade load or pitch link load at any azimuth location may be reconstructed from the tabulated harmonics by using the following equation:

$$\text{Load} = A_0 + \sum_{n=1}^8 A_n \sin(n\psi + \phi_n)$$

The data are presented in the following order:

| | Table | Figure |
|--|--------|--------|
| Data repeatability | III-IV | 7-8 |
| ACR blade, rectangular tip, 0° tabs | V | 9 |
| ACR blade, rectangular tip, 4° tabs | VI | 10 |
| ACR blade, swept tip, 4° tabs | VII | 11 |
| Baseline blade, swept tip, 0° tabs | VIII | 12 |

The positive direction of all tab deflections indicated is for trailing-edge up. The data presented under "data repeatability" were presented in this form to allow the reader to make a comparative assessment of the quality of the data obtained during this investigation. The data presented in figures 7 and 8 were selected as the most representative repeat data points.

CONCLUDING REMARKS

Performance and loads data are compiled for two model helicopter rotors incorporating differences in rotor structural and geometric parameters. The test measured the effects of blade torsional stiffness, blade section camber, and distance between

the blade structural elastic axis and blade-tip aerodynamic center on rotor performance and loads. The cross-referencing of performance data and harmonic-loads data may be useful to the analyst for validating rotor aeroelastic theories and design methodologies as well as for evaluating passive aeroelastic tailoring of rotor blade parameters.

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REFERENCES

1. Lemnios, A. Z.; and Smith, A. F.: An Analytical Evaluation of the Controllable Twist Rotor Performance and Dynamic Behavior. USAAMRDL Tech. Rep. 72-16, U.S. Army, May 1972. (Available from DTIC as AD 747 808.)
2. Lemnios, A. Z.; Nettles, William E.; and Howes, H. E.: Full Scale Wind Tunnel Tests of a Controllable Twist Rotor. Preprint No. 1064, 32nd Annual National V/STOL Forum, American Helicopter Soc., May 1976.
3. McCloud, John L., III; and Kretz, Marcel: Multicyclic Jet-Flap Control for Alleviation of Helicopter Blade Stresses and Fuselage Vibration. Proceedings - Specialists Meeting on Rotorcraft Dynamics, American Helicopter Soc. and NASA-Ames Research Center, Feb. 1974.
4. Doman, Glidden S.; Tarzanin, Frank J.; and Shaw, John, Jr.: Investigation of Aeroelastically Adaptive Rotor Systems. Proceedings of a Symposium on Rotor Technology, American Helicopter Soc., Aug. 1976.
5. Blackwell, R. H.; and Merkley, D. J.: The Aeroelastically Conformable Rotor Concept. Preprint No. 78-59, American Helicopter Soc., May 1978.
6. Blackwell, R. H.; Murrill, R. J.; Yeager, W. T., Jr.; and Mirick, P. H.: Wind Tunnel Evaluation of Aeroelastically Conformable Rotors. Preprint No. 80-23, 36th Annual Forum Proceedings, American Helicopter Soc., May 1980.
7. Blackwell, R. H.; and Frederickson, K. C.: Wind Tunnel Evaluation of Aeroelastically Conformable Rotors. USAAVRADCOM-TR-80-D-32, U.S. Army, Jan. 1981.
8. Lee, Charles: Weight Considerations in Dynamically Similar Model Rotor Design. SAWE Paper No. 659, May 1968.

TABLE I.- PROPERTIES OF BASELINE BLADE

(a) Structural properties

| Inboard station of segment, r/R | Segment length, ft | Mass, slugs | Structural stiffness, lb-ft ² | | | Radius of gyration of spar, ft |
|---------------------------------------|--------------------------|----------------|--|----------|-----------|--------------------------------------|
| | | | Chordwise | Flapwise | Torsional | |
| 0.117 | 0.167 | 0.011 | 69 397 | 9319.0 | 431.7 | 0.000417 ↓ |
| .151 | .417 | .007 | 2 776 | 9319.0 | 431.7 | |
| .236 | .751 | .014 | 2 776 | 74.3 | 88.8 | |
| .389 | .417 | .008 | 2 568 | 81.3 | 91.7 | |
| .474 | .335 | .006 | ↓ | 75.7 | 93.7 | |
| .542 | .915 | .017 | ↓ | 81.3 | 94.4 | |
| .729 | .335 | .006 | ↓ | 86.6 | 92.2 | |
| .797 | .249 | .005 | ↓ | 91.7 | 102.1 | |
| .850 | .167 | .005 | 694 | 33.4 | 27.1 | |
| .884 | .568 | .002 | 347 | 20.8 | 21.5 | |

(b) Model rotor blade rotating natural frequencies

| Model identity | ω/Ω^* |
|----------------|-------------------|
| Flapwise | 2.65 |
| Flapwise | 4.98 |
| Chordwise | 5.08 |
| Torsional | 7.06 |
| Flapwise | 8.17 |

* Ω = 68.07 rad/sec.

TABLE II.- PROPERTIES OF ACR BLADE

(a) Structural properties

| Inboard station of segment, r/R | Segment length, ft | Mass, slugs | Structural stiffness, lb-ft ² | | | Radius of gyration of spar, ft |
|---------------------------------------|--------------------------|----------------|--|----------|-----------|--------------------------------------|
| | | | Chordwise | Flapwise | Torsional | |
| 0.117 | 0.167 | 0.011 | 69 397 | 9319.0 | 431.7 | 0.000417 ↓ |
| .151 | .417 | .007 | 2 776 | 9319.0 | 431.7 | |
| .236 | .751 | .014 | 2 776 | 75.7 | 85.4 | |
| .389 | .417 | .008 | 2 568 | 78.4 | 68.0 | |
| .474 | .335 | .006 | | 75.0 | 27.8 | |
| .542 | .915 | .017 | ↓ | 71.4 | 23.0 | |
| .729 | .335 | .006 | | 88.8 | 26.4 | |
| .797 | .249 | .005 | ↓ | 72.1 | 27.8 | |
| .850 | .167 | .005 | 694 | 59.8 | 33.4 | |
| .884 | .568 | .002 | 347 | 20.8 | 21.5 | |

(b) Model rotor blade rotating natural frequencies

| Model identity | ω/Ω^* |
|----------------|-------------------|
| Flapwise | 2.75 |
| Torsional | 4.50 |
| Flapwise | 4.96 |
| Chordwise | 4.98 |
| Flapwise | 8.17 |

* Ω = 68.07 rad/sec.

TABLE III.- REPEAT DATA POINTS FOR ACR BLADE
WITH SWEPT TIP AND 4° TABS

[Data plotted in fig. 7]

(a) $\mu = 0.20$; $M_T = 0.65$

| PT. | ALPHA | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CS/SIGMA |
|-----|-------|------|-----|-------|----------|----------|----------|
| 139 | -10.0 | -1.9 | 3.3 | 4.0 | .03583 | -.00618 | .00267 |
| 140 | -10.0 | -1.3 | 3.8 | 5.9 | .04741 | -.00822 | .00333 |
| 141 | -10.0 | -1.7 | 4.5 | 7.9 | .06049 | -.01065 | .00413 |
| 142 | -10.0 | -2.1 | 5.2 | 9.9 | .07183 | -.01289 | .00496 |
| 143 | -10.0 | -2.6 | 5.9 | 11.9 | .08396 | -.01515 | .00597 |
| 144 | -10.0 | -3.1 | 6.6 | 13.9 | .09496 | -.01751 | .00714 |
| 145 | -10.0 | -3.6 | 7.1 | 15.8 | .10519 | -.01959 | .00828 |
| 150 | -9.9 | -1.8 | 3.5 | 4.0 | .03664 | -.00591 | .00277 |
| 151 | -10.0 | -1.3 | 4.0 | 6.0 | .04872 | -.00809 | .00343 |
| 152 | -10.0 | -1.6 | 4.7 | 7.9 | .06047 | -.01038 | .00426 |
| 153 | -10.0 | -2.0 | 5.5 | 9.9 | .07235 | -.01261 | .00508 |
| 154 | -10.0 | -2.6 | 6.1 | 12.1 | .08373 | -.01520 | .00620 |
| 155 | -10.0 | -2.9 | 6.8 | 13.8 | .09546 | -.01722 | .00723 |

(b) $\mu = 0.30$; $M_T = 0.65$

| PT. | ALPHA | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CS/SIGMA |
|-----|-------|------|------|-------|----------|----------|----------|
| 213 | -5.0 | -1.3 | 5.2 | 4.1 | .04287 | -.00294 | .00256 |
| 214 | -5.0 | -2.3 | 6.6 | 6.0 | .05092 | -.00446 | .00321 |
| 215 | -5.0 | -2.4 | 7.0 | 8.0 | .06145 | -.00568 | .00385 |
| 216 | -5.0 | -2.7 | 8.0 | 9.9 | .07463 | -.00654 | .00449 |
| 217 | -5.0 | -3.5 | 9.2 | 11.9 | .08551 | -.00838 | .00551 |
| 218 | -5.0 | -4.2 | 10.5 | 14.1 | .09520 | -.01058 | .00692 |
| 219 | -5.0 | -4.4 | 10.6 | 14.8 | .09788 | -.01096 | .00739 |
| 220 | -5.0 | -4.8 | 11.2 | 15.8 | .10204 | -.01195 | .00823 |
| 251 | -5.0 | -1.2 | 5.2 | 1.9 | .02612 | -.00158 | .00209 |
| 252 | -5.0 | -1.2 | 5.3 | 3.9 | .04167 | -.00271 | .00252 |
| 356 | -4.9 | -1.4 | 4.3 | 2.0 | .03045 | -.00200 | .00207 |
| 357 | -4.9 | -1.4 | 5.7 | 4.0 | .04196 | -.00324 | .00269 |
| 358 | -4.9 | -1.7 | 6.4 | 6.0 | .05534 | -.00438 | .00322 |
| 359 | -4.9 | -2.4 | 7.6 | 8.1 | .06634 | -.00594 | .00396 |
| 360 | -4.9 | -2.8 | 8.6 | 9.9 | .07635 | -.00740 | .00475 |
| 361 | -4.9 | -3.5 | 9.6 | 11.9 | .08774 | -.00886 | .00570 |
| 362 | -4.9 | -3.9 | 10.4 | 13.9 | .09747 | -.01037 | .00687 |
| 363 | -4.9 | -4.3 | 11.0 | 14.8 | .10153 | -.01139 | .00766 |
| 364 | -4.9 | -4.6 | 11.7 | 16.0 | .10561 | -.01224 | .00870 |
| 427 | -4.9 | -1.4 | 5.4 | 4.1 | .04310 | -.00286 | .00234 |
| 428 | -4.9 | -1.9 | 6.1 | 6.1 | .05574 | -.00402 | .00317 |
| 429 | -4.9 | -2.4 | 7.7 | 8.1 | .06411 | -.00558 | .00393 |
| 430 | -4.9 | -2.8 | 8.2 | 9.9 | .07673 | -.00679 | .00460 |
| 431 | -4.9 | -3.4 | 9.2 | 11.9 | .08633 | -.00831 | .00559 |
| 433 | -4.9 | -4.4 | 11.0 | 14.9 | .09946 | -.01101 | .00762 |

(c) $\mu = 0.40$; $M_T = 0.65$

| PT. | ALPHA | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CS/SIGMA |
|-----|-------|------|------|-------|----------|----------|----------|
| 331 | -5.0 | -1.3 | 6.4 | 4.0 | .03351 | -.00128 | .00280 |
| 332 | -5.0 | -1.7 | 8.0 | 6.0 | .04272 | -.00245 | .00345 |
| 333 | -5.0 | -1.8 | 8.0 | 5.9 | .04234 | -.00250 | .00342 |
| 334 | -5.0 | -1.9 | 8.9 | 7.9 | .05429 | -.00354 | .00399 |
| 335 | -5.0 | -2.4 | 10.1 | 9.9 | .06390 | -.00484 | .00484 |
| 365 | -4.8 | -1.5 | 6.5 | 4.0 | .03191 | -.00152 | .00268 |
| 366 | -4.9 | -1.8 | 8.0 | 6.0 | .04163 | -.00281 | .00333 |
| 367 | -4.9 | -2.1 | 9.1 | 8.0 | .05245 | -.00408 | .00399 |
| 368 | -4.9 | -2.5 | 10.2 | 9.9 | .06283 | -.00524 | .00480 |

TABLE IV.- REPEAT DATA POINTS FOR BASELINE BLADE
WITH SWEPT TIP AND 0° TABS

[Data plotted in fig. 8]

(a) $\mu = 0.30$; $M_T = 0.65$

| PT. | ALPHA | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CG/SIGMA |
|-----|-------|------|-----|-------|----------|----------|----------|
| 534 | -4.9 | -.4 | 3.6 | 6.2 | .03349 | -.00156 | .00229 |
| 535 | -5.0 | -1.0 | 4.5 | 8.1 | .04657 | -.00296 | .00288 |
| 537 | -4.9 | -2.5 | 6.6 | 12.1 | .07177 | -.00627 | .00453 |
| 538 | -4.9 | -2.9 | 7.4 | 14.0 | .08694 | -.00775 | .00530 |
| 539 | -4.9 | -3.7 | 8.4 | 16.1 | .09836 | -.00926 | .00673 |
| 541 | -4.9 | -4.4 | 9.6 | 18.1 | .10935 | -.01138 | .00831 |
| 542 | -5.0 | -2.5 | 6.6 | 11.9 | .07144 | -.00653 | .00443 |
| 617 | -4.9 | .0 | 1.8 | 2.0 | .00489 | .00167 | .00151 |
| 618 | -4.8 | -.2 | 2.4 | 4.1 | .02092 | .00013 | .00192 |
| 619 | -4.9 | -.7 | 3.4 | 5.9 | .03381 | -.00124 | .00237 |
| 620 | -4.9 | -1.1 | 4.8 | 6.2 | .04864 | -.00296 | .00315 |
| 621 | -4.9 | -1.6 | 5.5 | 9.9 | .06142 | -.00431 | .00377 |
| 622 | -4.9 | -2.3 | 6.5 | 12.0 | .07495 | -.00606 | .00466 |
| 623 | -4.9 | -2.8 | 7.7 | 14.1 | .08880 | -.00803 | .00581 |
| 626 | -4.9 | -1.4 | 6.0 | 11.0 | .06908 | -.00510 | .00412 |
| 682 | -5.0 | .1 | 1.9 | 2.0 | .00456 | .00097 | .00120 |
| 683 | -5.0 | .1 | 1.9 | 2.0 | .00462 | .00097 | .00118 |
| 684 | -4.9 | .1 | 2.4 | 4.0 | .02104 | -.00065 | .00158 |
| 685 | -5.0 | -.4 | 3.9 | 6.0 | .03282 | -.00210 | .00206 |
| 686 | -5.0 | -.5 | 3.9 | 6.0 | .03352 | -.00219 | .00208 |
| 687 | -5.0 | -1.0 | 4.7 | 7.8 | .04575 | -.00352 | .00270 |
| 688 | -5.0 | -1.6 | 5.5 | 10.0 | .06245 | -.00515 | .00351 |
| 689 | -5.0 | -2.0 | 6.5 | 11.9 | .07580 | -.00686 | .00439 |
| 690 | -5.0 | -2.7 | 7.6 | 14.1 | .08944 | -.00849 | .00552 |
| 691 | -5.0 | -3.4 | 8.5 | 15.9 | .10097 | -.01019 | .00667 |
| 692 | -5.0 | -4.2 | 9.6 | 17.9 | .11189 | -.01196 | .00851 |

(b) $\mu = 0.30$; $M_T = 0.68$

| PT. | ALPHA | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CG/SIGMA |
|-----|-------|------|-----|-------|----------|----------|----------|
| 584 | -5.0 | -.6 | 3.6 | 6.2 | .03138 | -.00134 | .00228 |
| 585 | -5.0 | -1.2 | 4.6 | 6.2 | .04445 | -.00295 | .00290 |
| 586 | -5.0 | -1.3 | 5.5 | 10.0 | .05770 | -.00436 | .00334 |
| 588 | -5.0 | -2.9 | 7.6 | 14.0 | .08388 | -.00777 | .00533 |
| 627 | -4.8 | -.1 | 2.5 | 4.1 | .02033 | -.00007 | .00187 |
| 628 | -4.8 | -.6 | 3.4 | 6.0 | .03446 | -.00156 | .00238 |
| 629 | -4.9 | -1.1 | 4.6 | 8.1 | .04806 | -.00313 | .00297 |
| 630 | -4.9 | -1.6 | 5.4 | 10.0 | .06132 | -.00464 | .00367 |
| 631 | -4.9 | -2.2 | 6.3 | 11.9 | .07444 | -.00619 | .00447 |
| 632 | -4.9 | -2.8 | 7.3 | 13.9 | .08796 | -.00789 | .00555 |
| 633 | -4.9 | -3.4 | 8.4 | 16.0 | .10050 | -.00959 | .00682 |
| 639 | -5.0 | -.3 | 2.5 | 3.9 | .01995 | -.00022 | .00176 |
| 640 | -5.0 | -.7 | 3.6 | 5.9 | .03395 | -.00169 | .00223 |
| 641 | -5.0 | -1.1 | 4.6 | 8.0 | .04852 | -.00330 | .00294 |
| 642 | -5.0 | -1.5 | 5.6 | 9.9 | .06203 | -.00477 | .00366 |
| 643 | -5.0 | -2.1 | 6.4 | 11.7 | .07537 | -.00624 | .00449 |
| 644 | -5.0 | -2.8 | 7.5 | 13.8 | .08814 | -.00808 | .00553 |
| 645 | -5.0 | -3.6 | 8.6 | 15.9 | .10066 | -.01002 | .00691 |

TABLE V.- ROTOR PERFORMANCE AND BLADE LOADS DATA FOR ACR BLADE
WITH RECTANGULAR TIP AND 0° TABS

(a) $\mu = 0.20$; $M_T = 0.65$

| PT. | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|----------|----------|----------|
| 376 | .02657 | -.00340 | .00218 |
| 377 | .04128 | -.00634 | .00297 |
| 378 | .06084 | -.00969 | .00407 |
| 379 | .07567 | -.01253 | .00519 |
| 380 | .09339 | -.01521 | .00656 |
| 381 | .10773 | -.01850 | .00820 |
| 382 | .02593 | -.00094 | .00150 |
| 383 | .04028 | -.00272 | .00213 |
| 384 | .05678 | -.00450 | .00278 |
| 385 | .07463 | -.00603 | .00364 |
| 386 | .09115 | -.00758 | .00470 |
| 387 | .10598 | -.00915 | .00601 |
| 388 | .00809 | -.00021 | .00121 |
| 389 | .01649 | -.00030 | .00157 |
| 390 | .02657 | -.00043 | .00212 |
| 391 | .03975 | -.00014 | .00300 |
| 392 | .05366 | -.00002 | .00408 |
| 393 | .06770 | .00014 | .00534 |
| 394 | .08170 | .00002 | .00687 |
| 395 | .09751 | .00025 | .00874 |
| 396 | .10419 | .00041 | .00970 |

TABLE V.- Continued

(a) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | 46.88 | 18.14 | 613 | 5.58 145.56 | 3.74 334.57 | 2.97 68.93 | 1.46 335.54 | 1.71 51.27 | .63 312.57 | .25 178.63 | .59 384.38 |
| 377 | 49.16 | 9.29 | 612 | 5.93 146.22 | 3.88 342.66 | 2.18 53.99 | 1.55 322.85 | 1.23 34.81 | .59 293.89 | .68 187.78 | .68 289.95 |
| 378 | 51.98 | 9.66 | 612 | 5.25 147.29 | 3.93 352.15 | 1.29 36.24 | 1.29 318.48 | 1.69 333.89 | .73 285.88 | .32 6.28 | .86 265.12 |
| 379 | 54.66 | 11.88 | 612 | 4.63 138.52 | 4.31 359.44 | 1.18 347.94 | 1.15 288.31 | 2.62 328.82 | .68 236.41 | .79 16.41 | .14 239.19 |
| 380 | 57.69 | 14.98 | 612 | 3.95 118.42 | 4.94 12.73 | 1.88 288.62 | 1.85 247.82 | 3.27 316.84 | 1.36 219.15 | 1.23 19.39 | 1.48 244.53 |
| 381 | 68.81 | 17.48 | 612 | 4.42 86.94 | 6.85 9.28 | 2.65 257.81 | 1.54 199.78 | 3.55 289.37 | 1.68 194.73 | 1.52 355.41 | 1.65 287.21 |
| 382 | 45.31 | 13.29 | 611 | 6.51 155.72 | 4.98 317.95 | 4.42 72.88 | 2.35 338.82 | 1.32 185.97 | .48 321.66 | .42 288.45 | .64 316.16 |
| 383 | 47.63 | 11.42 | 612 | 6.48 148.22 | 4.45 322.73 | 3.15 53.32 | 1.92 312.83 | .98 52.88 | .85 295.36 | .42 289.37 | .87 295.25 |
| 384 | 58.14 | 18.25 | 612 | 5.87 148.23 | 4.16 334.55 | 2.48 39.98 | 1.97 388.64 | 1.83 341.82 | 1.46 283.39 | .53 327.18 | .31 298.78 |
| 385 | 52.82 | 11.78 | 612 | 5.32 144.88 | 3.94 343.28 | 1.88 12.38 | 2.87 282.52 | 2.46 312.39 | 1.72 271.68 | .85 329.46 | .87 275.94 |
| 386 | 55.55 | 14.32 | 612 | 4.45 131.83 | 4.82 353.17 | 1.49 329.88 | 2.37 248.89 | 3.48 381.36 | 2.32 243.74 | 1.87 389.94 | 2.24 256.39 |
| 387 | 58.13 | 15.85 | 613 | 3.95 189.39 | 4.92 8.57 | 1.66 388.37 | 2.66 229.28 | 3.81 312.81 | 2.56 236.32 | .79 318.87 | 2.58 256.17 |
| 388 | 46.33 | 3.88 | 616 | .68 266.16 | .68 264.53 | 5.88 381.85 | 5.88 261.88 | .28 265.61 | .51 381.42 | .33 388.39 | .32 381.92 |
| 389 | 47.48 | 6.98 | 613 | 1.7 162.84 | .53 295.81 | 2.29 7.68 | 1.87 384.46 | .24 22.68 | .79 153.89 | .46 48.36 | .46 213.91 |
| 390 | 49.84 | 13.88 | 612 | .62 142.45 | .39 287.53 | 1.28 48.56 | 1.76 47.67 | 2.58 338.71 | 1.14 296.98 | .97 297.74 | .73 221.11 |
| 391 | 58.54 | 15.88 | 611 | .37 189.93 | 1.46 185.78 | 2.78 318.46 | 1.19 76.78 | 2.18 136.44 | .81 268.47 | 1.36 68.83 | .49 54.76 |
| 392 | 52.84 | 17.28 | 614 | .95 217.37 | 1.35 214.33 | 2.11 78.85 | 2.25 75.63 | 2.81 75.74 | .31 66.41 | .56 277.51 | .73 73.45 |
| 393 | 54.51 | 17.48 | 612 | .54 237.85 | 1.94 183.83 | .96 28.52 | 1.77 134.21 | 1.77 18.56 | 2.68 318.87 | .64 216.98 | 1.14 238.74 |
| 394 | 56.83 | 21.66 | 612 | .39 278.91 | .83 281.78 | 5.16 186.48 | 2.64 47.57 | 3.43 286.93 | .26 34.66 | 1.14 228.18 | .78 9.76 |
| 395 | 59.73 | 23.88 | 611 | 1.88 268.37 | 1.88 123.82 | 2.79 348.94 | 3.18 184.41 | 3.17 25.84 | 1.26 253.81 | 1.66 148.81 | 1.51 285.58 |
| 396 | 61.33 | 26.71 | 612 | 1.62 337.63 | 2.29 137.58 | 1.89 36.46 | 2.76 24.68 | 6.77 317.31 | 1.72 35.38 | 1.76 178.87 | .35 223.87 |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|------------------|----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | 55.82 | 19.62 | 613 | 5.68 287.71 | 2.85 139.83 | 3.82 278.25 | 2.25 33.97 | 3.62 273.97 | 3.96 173.61 | 1.13 68.74 | .18 14.27 |
| 377 | 56.74 | 38.41 | 612 | 6.37 311.15 | 4.74 152.22 | 3.68 253.41 | 3.68 389.31 | 4.96 268.91 | 5.35 159.25 | 1.58 63.82 | .14 25.18 |
| 378 | 57.38 | 57.18 | 612 | 35.47 338.87 | 6.94 163.82 | 8.88 211.36 | 5.81 336.58 | 2.96 234.19 | 8.19 213.88 | .78 69.88 | .89 174.32 |
| 379 | 57.51 | 72.76 | 612 | 54.69 346.65 | 5.58 182.76 | 12.85 284.74 | 5.89 339.78 | 5.19 176.38 | 3.75 234.13 | 1.86 336.66 | .18 257.83 |
| 380 | 56.91 | 94.59 | 612 | 78.49 357.18 | 5.44 216.85 | 16.22 214.12 | 3.82 355.62 | 12.36 189.37 | 4.78 27.19 | 1.79 1.35 | .33 285.62 |
| 381 | 56.88 | 117.31 | 612 | 181.28 355.18 | 9.81 238.38 | 16.25 284.46 | 2.38 324.67 | 15.85 167.59 | 8.73 38.17 | 1.95 327.36 | .38 198.61 |
| 382 | 55.83 | 19.55 | 611 | 7.59 292.86 | 4.71 136.55 | 5.22 274.88 | 2.75 326.56 | 4.34 278.78 | 2.28 197.97 | 1.82 83.46 | .18 53.18 |
| 383 | 55.42 | 29.54 | 612 | 14.78 298.28 | 6.91 138.26 | 6.98 258.61 | 2.68 289.87 | 6.49 258.75 | .79 253.23 | 1.35 48.64 | .19 3.88 |
| 384 | 55.86 | 48.28 | 612 | 27.46 312.78 | 8.51 142.38 | 5.94 224.89 | 5.28 388.59 | 6.89 252.71 | 6.93 159.12 | 2.37 45.46 | .31 358.85 |
| 385 | 54.43 | 67.58 | 612 | 44.22 332.32 | 8.81 141.77 | 9.94 282.64 | 6.25 323.44 | 3.86 226.28 | 7.39 177.38 | 1.28 31.64 | .11 384.89 |
| 386 | 53.92 | 84.44 | 612 | 63.95 341.26 | 5.56 142.88 | 14.77 195.49 | 5.69 317.73 | 2.39 158.88 | 2.58 123.44 | 2.58 389.97 | .45 273.44 |
| 387 | 53.79 | 184.69 | 613 | 85.78 349.13 | 2.48 173.16 | 2.79 218.38 | 2.98 328.78 | 8.87 163.72 | 2.94 19.19 | 4.88 317.51 | .78 338.88 |
| 388 | 53.63 | 9.82 | 616 | 1.59 297.83 | .68 158.63 | 1.28 141.64 | .55 192.98 | 1.19 147.62 | 1.11 191.48 | .18 359.86 | .89 294.32 |
| 389 | 53.93 | 18.34 | 613 | 1.37 297.88 | .61 174.84 | 2.58 234.95 | .98 275.89 | .86 183.57 | .72 225.59 | .22 68.69 | .11 265.11 |
| 390 | 52.87 | 23.19 | 612 | 1.85 385.78 | .12 182.43 | 2.81 269.88 | 2.22 43.78 | 4.46 279.43 | 5.28 138.94 | .87 382.87 | .14 262.15 |
| 391 | 52.45 | 38.74 | 611 | 2.15 322.84 | 2.18 41.92 | 2.81 178.88 | 2.22 85.38 | 4.46 189.32 | 5.28 159.18 | .87 51.41 | .14 133.85 |
| 392 | 53.31 | 33.98 | 614 | 3.99 321.83 | 2.69 73.46 | 3.32 388.95 | 2.98 74.39 | 3.26 337.46 | 5.98 232.47 | .99 259.73 | .23 295.51 |
| 393 | 54.41 | 48.35 | 612 | 6.72 339.32 | 5.61 45.98 | 1.81 258.42 | 2.34 112.48 | 1.95 187.87 | 7.64 277.87 | 1.58 233.19 | .84 173.77 |
| 394 | 55.68 | 59.58 | 612 | 6.88 358.49 | 4.46 66.83 | 15.86 314.34 | 6.18 27.45 | 9.85 227.76 | 6.67 112.72 | 1.66 258.45 | .56 91.86 |
| 395 | 56.89 | 69.48 | 611 | 15.65 319.84 | 9.76 352.33 | 9.47 286.88 | 7.77 74.18 | 3.68 196.58 | 6.47 288.12 | 4.29 183.67 | .63 18.16 |
| 396 | 56.28 | 92.74 | 612 | 22.95 354.96 | 14.91 12.67 | 12.28 255.94 | 7.84 338.98 | 14.87 185.58 | .83 154.22 | 3.89 196.78 | 1.88 175.24 |

TABLE V.- Continued

(a) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | -3.28 | 4.65 | 613 | 4.32 | .76 | .23 | .13 | .19 | .88 | .86 | .85 AMP |
| | | | | 161.46 | 18.78 | 78.73 | 267.67 | 338.53 | 268.37 | 169.62 | 225.43 PHASE |
| 377 | -3.62 | 4.76 | 612 | 4.27 | 1.86 | .11 | .18 | .24 | .16 | .87 | .81 AMP |
| | | | | 153.25 | 8.88 | 122.31 | 265.51 | 335.81 | 216.12 | 139.82 | 288.74 PHASE |
| 378 | -4.86 | 4.92 | 612 | 4.13 | 1.35 | .29 | .24 | .89 | .16 | .87 | .82 AMP |
| | | | | 144.54 | 17.91 | 224.75 | 239.93 | 249.69 | 226.76 | 286.11 | 161.63 PHASE |
| 379 | -4.48 | 5.53 | 612 | 3.98 | 1.78 | .55 | .21 | .26 | .28 | .88 | .83 AMP |
| | | | | 132.42 | 21.25 | 225.67 | 199.44 | 225.95 | 194.99 | 273.16 | 248.86 PHASE |
| 388 | -5.88 | 6.32 | 612 | 4.81 | 2.43 | 1.81 | .49 | .56 | .35 | .18 | .85 AMP |
| | | | | 115.15 | 29.72 | 236.38 | 134.63 | 281.46 | 229.69 | 348.23 | 354.19 PHASE |
| 381 | -5.55 | 7.58 | 612 | 4.86 | 2.92 | 1.51 | .92 | .54 | .31 | .26 | .18 AMP |
| | | | | 98.81 | 21.84 | 236.78 | 184.28 | 174.88 | 284.97 | 327.24 | 329.42 PHASE |
| 382 | -2.54 | 4.93 | 611 | 4.28 | .14 | .94 | .32 | .13 | .83 | .83 | .83 AMP |
| | | | | 165.86 | 334.19 | 93.16 | 348.38 | 336.45 | 195.89 | 89.87 | 295.65 PHASE |
| 383 | -3.81 | 4.64 | 612 | 4.23 | .57 | .56 | .18 | .15 | .87 | .86 | .85 AMP |
| | | | | 155.53 | 1.81 | 78.13 | 266.38 | 288.52 | 193.55 | 318.84 | 246.37 PHASE |
| 384 | -3.46 | 4.74 | 612 | 4.17 | .93 | .24 | .36 | .12 | .25 | .81 | .84 AMP |
| | | | | 147.63 | 13.82 | 122.66 | 218.78 | 298.43 | 227.34 | 168.46 | 284.33 PHASE |
| 385 | -3.93 | 5.18 | 612 | 3.94 | 1.44 | .31 | .54 | .19 | .18 | .18 | .87 AMP |
| | | | | 137.32 | 25.65 | 193.72 | 287.56 | 233.63 | 228.59 | 239.32 | 264.46 PHASE |
| 386 | -4.43 | 5.92 | 612 | 3.75 | 2.11 | .63 | .82 | .44 | .18 | .15 | .85 AMP |
| | | | | 128.44 | 29.46 | 197.86 | 191.79 | 238.11 | 213.86 | 266.68 | 233.82 PHASE |
| 387 | -4.99 | 6.66 | 613 | 4.81 | 3.12 | 1.22 | 1.85 | .64 | .25 | .13 | .14 AMP |
| | | | | 98.58 | 38.23 | 285.35 | 281.76 | 261.32 | 324.38 | 11.75 | 168.98 PHASE |
| 388 | -2.88 | .95 | 616 | .22 | .13 | .13 | .82 | .17 | .85 | .85 | .82 AMP |
| | | | | 324.45 | 248.77 | 57.57 | 183.14 | 149.41 | 197.37 | 385.64 | 312.34 PHASE |
| 389 | -2.43 | 1.23 | 613 | .16 | .89 | .89 | .17 | .21 | .84 | .83 | .86 AMP |
| | | | | 159.88 | 299.88 | 34.92 | 273.56 | 262.96 | 148.35 | 86.14 | 188.22 PHASE |
| 398 | -2.84 | 2.32 | 612 | .34 | .26 | .18 | .38 | .45 | .13 | .83 | .86 AMP |
| | | | | 127.45 | 318.51 | 95.54 | 15.91 | 232.88 | 169.56 | 319.35 | 211.21 PHASE |
| 391 | -3.65 | 2.72 | 611 | .45 | .36 | .27 | .29 | .27 | .88 | .88 | .83 AMP |
| | | | | 148.29 | 264.11 | 281.19 | 358.93 | 58.86 | 133.59 | 76.49 | 188.81 PHASE |
| 392 | -4.44 | 3.53 | 614 | .22 | .32 | .16 | .78 | .48 | .13 | .81 | .82 AMP |
| | | | | 158.75 | 297.86 | 15.44 | 33.94 | 334.86 | 167.34 | 41.88 | 98.84 PHASE |
| 393 | -5.84 | 3.77 | 612 | .28 | .58 | .16 | .45 | .26 | .35 | .11 | .89 AMP |
| | | | | 125.84 | 312.31 | 272.89 | 49.98 | 292.89 | 189.82 | 189.85 | 262.31 PHASE |
| 394 | -5.68 | 4.92 | 612 | .49 | .19 | .58 | .75 | .19 | .86 | .86 | .83 AMP |
| | | | | 178.89 | 287.34 | 351.31 | 358.41 | 218.97 | 6.69 | 388.79 | 386.69 PHASE |
| 395 | -6.48 | 4.74 | 611 | .31 | .64 | .69 | .84 | .18 | .26 | .11 | .15 AMP |
| | | | | 152.96 | 326.33 | 274.82 | 38.92 | 288.57 | 162.19 | 118.17 | 261.23 PHASE |
| 396 | -6.66 | 7.82 | 612 | .41 | .45 | .27 | 1.13 | 1.48 | .38 | .28 | .83 AMP |
| | | | | 71.89 | 276.71 | 248.43 | 325.15 | 285.81 | 58.56 | 157.19 | 183.71 PHASE |

TABLE V.- Continued

(a) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | 32.82 | 13.46 | 613 | 9.33 | 5.23 | 3.44 | 1.28 | .98 | .17 | .86 | .89 AMP |
| 377 | 34.38 | 13.25 | 612 | 142.58 | 329.38 | 58.58 | 325.65 | 35.56 | 298.29 | 224.97 | 132.93 PHASE |
| 378 | 37.11 | 13.16 | 612 | 9.93 | 5.38 | 3.88 | 1.26 | .62 | .25 | .86 | .15 AMP |
| 379 | 39.63 | 14.54 | 612 | 143.58 | 335.28 | 39.98 | 318.58 | 18.63 | 298.82 | 151.62 | 181.75 PHASE |
| 380 | 42.38 | 17.83 | 612 | 18.35 | 5.24 | 2.78 | 1.22 | 1.31 | .32 | .89 | .28 AMP |
| 381 | 44.97 | 18.53 | 612 | 147.46 | 342.85 | 21.32 | 383.64 | 331.27 | 276.16 | 154.66 | 182.32 PHASE |
| 382 | 29.83 | 18.44 | 611 | 18.58 | 5.24 | 2.55 | 1.85 | 2.82 | .32 | .87 | .33 AMP |
| 383 | 32.21 | 16.26 | 612 | 146.96 | 347.71 | 351.27 | 273.39 | 321.33 | 251.18 | 196.57 | 64.83 PHASE |
| 384 | 34.82 | 15.37 | 612 | 18.86 | 5.38 | 2.58 | 1.29 | 2.55 | .52 | .82 | .41 AMP |
| 385 | 37.42 | 15.52 | 612 | 148.88 | 359.16 | 324.86 | 247.87 | 321.17 | 242.88 | 95.58 | 48.28 PHASE |
| 386 | 48.82 | 16.62 | 612 | 11.86 | 6.83 | 2.57 | 1.72 | 2.84 | .61 | .15 | .52 AMP |
| 387 | 42.68 | 18.78 | 613 | 141.59 | 356.98 | 293.68 | 216.46 | 298.33 | 211.98 | 64.53 | 18.52 PHASE |
| 388 | 33.31 | 4.11 | 616 | 18.33 | 7.83 | 4.81 | 2.86 | .46 | .37 | .14 | .18 AMP |
| 389 | 34.14 | 6.61 | 613 | 146.65 | 316.31 | 62.39 | 334.29 | 95.43 | 338.43 | 299.44 | 162.88 PHASE |
| 390 | 35.78 | 18.18 | 612 | 18.46 | 6.27 | 3.82 | 1.74 | .59 | .44 | .18 | .28 AMP |
| 391 | 36.99 | 14.84 | 611 | 143.94 | 318.64 | 44.41 | 311.62 | 34.71 | 383.77 | 383.88 | 112.42 PHASE |
| 392 | 39.17 | 13.23 | 614 | 18.89 | 5.89 | 3.42 | 1.82 | .75 | .63 | .83 | .38 AMP |
| 393 | 39.99 | 14.58 | 612 | 145.56 | 325.78 | 28.16 | 382.73 | 337.61 | 294.66 | 68.24 | 87.96 PHASE |
| 394 | 42.25 | 21.38 | 612 | 11.21 | 5.21 | 3.14 | 1.93 | 1.88 | .73 | .18 | .57 AMP |
| 395 | 45.85 | 22.21 | 611 | 145.82 | 338.88 | 6.15 | 285.49 | 317.86 | 281.28 | 138.32 | 73.31 PHASE |
| 396 | 47.11 | 28.82 | 612 | 11.25 | 4.82 | 3.86 | 2.85 | 2.72 | .87 | .88 | .71 AMP |
| | | | | 142.98 | 334.56 | 337.76 | 255.56 | 318.21 | 254.22 | 178.41 | 39.86 PHASE |
| | | | | 11.16 | 4.98 | 2.93 | 2.15 | 2.75 | .94 | .81 | .84 AMP |
| | | | | 142.48 | 358.43 | 338.34 | 237.38 | 323.81 | 247.75 | 298.41 | 34.69 PHASE |
| | | | | .92 | 1.88 | .85 | .52 | .25 | .19 | .82 | .88 AMP |
| | | | | 238.48 | 272.73 | 382.36 | 278.69 | 271.14 | 385.24 | 299.63 | 185.76 PHASE |
| | | | | .48 | .88 | 2.51 | .93 | .69 | .84 | .85 | .11 AMP |
| | | | | 198.98 | 388.28 | 7.27 | 385.27 | 23.17 | 173.33 | 115.91 | 18.38 PHASE |
| | | | | .43 | .56 | 1.33 | 1.37 | 1.67 | .88 | .83 | .21 AMP |
| | | | | 165.17 | 286.16 | 43.61 | 51.43 | 334.91 | 297.68 | 356.88 | 33.58 PHASE |
| | | | | .38 | 1.73 | 3.18 | .97 | 1.33 | .28 | .87 | .14 AMP |
| | | | | 228.36 | 186.13 | 313.83 | 82.84 | 145.28 | 269.46 | 31.88 | 213.85 PHASE |
| | | | | .66 | 1.86 | 2.56 | 1.62 | 1.88 | .88 | .12 | .15 AMP |
| | | | | 288.25 | 222.69 | 73.21 | 81.88 | 79.82 | 33.71 | 319.63 | 248.11 PHASE |
| | | | | .91 | 2.99 | 1.38 | .56 | 1.21 | 1.83 | .12 | .27 AMP |
| | | | | 198.78 | 183.85 | 25.45 | 168.94 | 18.98 | 324.72 | 288.46 | 54.51 PHASE |
| | | | | .59 | 1.52 | 7.11 | 1.98 | 2.36 | .18 | .18 | .21 AMP |
| | | | | 325.54 | 211.26 | 188.32 | 58.84 | 299.89 | 123.88 | 252.86 | 165.11 PHASE |
| | | | | .66 | 2.66 | 2.73 | 2.98 | 2.85 | .55 | .35 | .51 AMP |
| | | | | 238.47 | 133.75 | 34.39 | 113.97 | 26.47 | 269.32 | 282.83 | 96.99 PHASE |
| | | | | .49 | 3.26 | 3.82 | 2.25 | 4.93 | .67 | .16 | .28 AMP |
| | | | | 5.56 | 146.75 | 43.88 | 39.61 | 323.47 | 58.24 | 238.36 | 53.47 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | 37.22 | 18.74 | 613 | 5.85 | 2.56 | 3.84 | 3.85 | 3.95 | 4.98 | 1.67 | .59 AMP |
| 377 | 37.56 | 29.19 | 612 | 289.39 | 139.84 | 287.85 | 348.38 | 273.79 | 173.86 | 68.28 | 89.85 PHASE |
| 378 | 37.34 | 49.74 | 612 | 13.88 | 5.22 | 3.87 | 4.25 | 5.39 | 7.86 | 2.79 | .56 AMP |
| 379 | 36.65 | 57.98 | 612 | 388.79 | 151.71 | 271.69 | 322.86 | 259.26 | 155.66 | 67.84 | 74.66 PHASE |
| 380 | 35.83 | 71.49 | 612 | 26.11 | 5.96 | 5.68 | 6.89 | 3.78 | 12.87 | 1.66 | 1.27 AMP |
| 381 | 33.39 | 89.33 | 612 | 334.95 | 162.81 | 228.15 | 339.45 | 248.93 | 211.32 | 188.54 | 89.89 PHASE |
| 382 | 37.12 | 18.79 | 611 | 39.13 | 5.89 | 9.86 | 6.67 | 4.21 | 5.92 | .87 | .98 AMP |
| 383 | 36.78 | 26.82 | 612 | 343.31 | 177.28 | 218.58 | 338.61 | 191.65 | 238.85 | 388.46 | 68.71 PHASE |
| 384 | 36.87 | 36.79 | 612 | 55.58 | 4.97 | 13.33 | 5.81 | 11.31 | 6.49 | 3.28 | 1.34 AMP |
| 385 | 35.87 | 57.47 | 612 | 354.28 | 281.99 | 225.91 | 346.84 | 197.34 | 22.34 | 9.41 | 346.52 PHASE |
| 386 | 33.78 | 67.78 | 612 | 71.98 | 7.64 | 13.62 | 4.58 | 13.96 | 12.58 | 3.81 | 2.28 AMP |
| 387 | 32.17 | 82.32 | 613 | 353.41 | 223.14 | 216.85 | 313.89 | 174.43 | 36.31 | 346.47 | 316.17 PHASE |
| 388 | 35.52 | 9.43 | 616 | 7.88 | 4.81 | 3.92 | 3.46 | 5.15 | 2.57 | 1.54 | .59 AMP |
| 389 | 34.71 | 11.99 | 613 | 288.42 | 132.19 | 289.67 | 334.86 | 263.99 | 285.52 | 85.22 | 118.36 PHASE |
| 390 | 32.96 | 32.28 | 612 | 12.89 | 5.87 | 5.65 | 3.38 | 7.22 | 1.82 | 2.27 | .84 AMP |
| 391 | 31.62 | 35.86 | 611 | 289.72 | 135.91 | 278.33 | 388.68 | 249.33 | 275.97 | 41.91 | 114.57 PHASE |
| 392 | 31.51 | 38.83 | 614 | 21.68 | 7.39 | 4.68 | 6.51 | 6.88 | 9.25 | 4.45 | .87 AMP |
| 393 | 31.67 | 45.94 | 612 | 389.68 | 141.35 | 246.32 | 317.88 | 253.98 | 155.65 | 47.58 | 69.44 PHASE |
| 394 | 31.72 | 65.16 | 612 | 32.78 | 7.41 | 7.25 | 8.18 | 3.66 | 18.61 | 2.42 | 2.85 AMP |
| 395 | 31.18 | 68.88 | 611 | 328.87 | 141.27 | 221.91 | 326.13 | 258.82 | 174.87 | 65.12 | 63.81 PHASE |
| 396 | 38.75 | 98.78 | 612 | 46.28 | 6.12 | 11.52 | 8.28 | 1.65 | 3.17 | 2.99 | 1.68 AMP |
| | | | | 337.52 | 139.39 | 218.88 | 317.69 | 163.27 | 118.88 | 298.58 | 39.74 PHASE |
| | | | | 61.45 | 4.18 | 14.98 | 7.98 | 6.59 | 4.86 | 8.12 | 2.38 AMP |
| | | | | 346.85 | 153.18 | 223.77 | 325.28 | 165.59 | 16.31 | 318.78 | 22.82 PHASE |
| | | | | 1.88 | .57 | 1.83 | 5.9 | 1.21 | 1.51 | .32 | .29 AMP |
| | | | | 295.67 | 155.57 | 145.38 | 222.12 | 158.34 | 194.93 | 26.86 | 112.48 PHASE |
| | | | | 54 | 1.82 | 1.26 | .88 | 1.86 | .86 | .23 | .87 AMP |
| | | | | 295.94 | 174.19 | 251.57 | 288.47 | 154.95 | 227.46 | 189.58 | 344.88 PHASE |
| | | | | 1.31 | .17 | 1.71 | 2.98 | 5.47 | 7.26 | .43 | .47 AMP |
| | | | | 388.56 | 122.84 | 288.82 | 47.15 | 289.68 | 136.85 | 337.88 | 349.38 PHASE |
| | | | | 1.26 | 1.98 | 2.28 | 3.98 | 8.88 | 5.18 | .98 | .48 AMP |
| | | | | 334.21 | 45.84 | 288.16 | 82.91 | 112.23 | 158.98 | 31.89 | 194.71 PHASE |
| | | | | 2.28 | 2.48 | 2.66 | 5.22 | 3.13 | 8.46 | 1.26 | .64 AMP |
| | | | | 329.77 | 84.58 | 325.41 | 78.61 | 354.89 | 231.53 | 263.58 | 254.48 PHASE |
| | | | | 4.75 | 5.44 | 1.71 | 3.18 | 2.82 | 18.55 | 2.47 | .78 AMP |
| | | | | 346.44 | 55.98 | 289.95 | 122.38 | 157.57 | 277.93 | 255.86 | 35.51 PHASE |
| | | | | 4.24 | 3.58 | 18.41 | 7.93 | 12.14 | 18.87 | 3.81 | 1.87 AMP |
| | | | | 353.69 | 82.24 | 338.18 | 48.81 | 238.49 | 112.48 | 242.48 | 139.69 PHASE |
| | | | | 9.93 | 8.33 | 7.31 | 18.48 | 3.16 | 9.58 | 7.72 | 2.12 AMP |
| | | | | 323.34 | 2.38 | 236.29 | 87.16 | 163.52 | 281.84 | 193.12 | 68.15 PHASE |
| | | | | 14.74 | 11.82 | 9.27 | 9.85 | 12.33 | 11.13 | 6.43 | 1.38 AMP |
| | | | | 353.81 | 16.86 | 271.72 | 359.45 | 194.34 | 148.84 | 286.86 | 151.89 PHASE |

TABLE V.- Continued

(a) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | -4.13 | 4.16 | 613 | 3.86 | .68 | .16 | .89 | .16 | .84 | .85 | .82 AMP |
| | | | | 153.27 | 26.13 | 41.16 | 185.81 | 276.11 | 178.87 | 78.52 | 83.74 PHASE |
| 377 | -4.61 | 4.13 | 612 | 3.82 | .86 | .18 | .18 | .17 | .11 | .85 | .83 AMP |
| | | | | 144.83 | 5.14 | 135.57 | 287.88 | 282.89 | 142.78 | 67.48 | 26.67 PHASE |
| 378 | -5.87 | 4.42 | 612 | 3.77 | 1.89 | .29 | .18 | .11 | .88 | .85 | .83 AMP |
| | | | | 134.33 | 8.69 | 191.12 | 187.49 | 168.98 | 158.31 | 138.36 | 5.39 PHASE |
| 379 | -5.52 | 4.95 | 612 | 3.78 | 1.45 | .47 | .18 | .27 | .89 | .86 | .83 AMP |
| | | | | 122.94 | 9.11 | 188.99 | 154.81 | 161.89 | 114.14 | 283.39 | 299.91 PHASE |
| 388 | -6.81 | 5.79 | 612 | 3.81 | 2.83 | .75 | .46 | .51 | .17 | .13 | .86 AMP |
| | | | | 118.88 | 14.56 | 198.37 | 182.77 | 151.94 | 188.95 | 278.68 | 336.94 PHASE |
| 381 | -6.58 | 6.43 | 612 | 4.43 | 2.53 | 1.11 | .75 | .49 | .21 | .21 | .12 AMP |
| | | | | 88.86 | 8.81 | 199.69 | 67.33 | 115.74 | 175.78 | 262.82 | 293.24 PHASE |
| 382 | -3.47 | 4.16 | 611 | 3.76 | .22 | .71 | .21 | .16 | .15 | .87 | .84 AMP |
| | | | | 157.38 | 97.82 | 75.83 | 338.31 | 281.26 | 133.18 | 45.67 | 357.73 PHASE |
| 383 | -3.99 | 3.98 | 612 | 3.75 | .45 | .48 | .11 | .14 | .18 | .84 | .82 AMP |
| | | | | 147.59 | 23.88 | 49.82 | 189.54 | 238.99 | 184.47 | 336.88 | 333.86 PHASE |
| 384 | -4.46 | 4.28 | 612 | 3.75 | .75 | .23 | .38 | .89 | .16 | .84 | .84 AMP |
| | | | | 138.43 | 13.84 | 119.98 | 166.38 | 222.44 | 155.23 | 35.22 | 338.25 PHASE |
| 385 | -4.97 | 4.69 | 612 | 3.66 | 1.19 | .35 | .45 | .28 | .86 | .85 | .82 AMP |
| | | | | 127.88 | 15.95 | 163.24 | 159.78 | 164.29 | 146.54 | 172.89 | 279.36 PHASE |
| 386 | -5.45 | 5.38 | 612 | 3.59 | 1.73 | .57 | .69 | .48 | .84 | .88 | .81 AMP |
| | | | | 112.68 | 16.23 | 168.65 | 148.83 | 174.73 | 53.96 | 231.86 | 332.42 PHASE |
| 387 | -6.88 | 5.97 | 613 | 3.83 | 2.61 | 1.86 | .88 | .54 | .29 | .12 | .89 AMP |
| | | | | 95.82 | 23.65 | 166.73 | 163.85 | 221.24 | 327.82 | 341.23 | 93.52 PHASE |
| 388 | -3.13 | .93 | 616 | .32 | .89 | .16 | .84 | .14 | .85 | .83 | .88 AMP |
| | | | | 328.98 | 232.89 | 43.61 | 55.42 | 188.48 | 134.75 | 258.13 | 388.25 PHASE |
| 389 | -3.53 | .98 | 613 | .83 | .87 | .86 | .11 | .28 | .81 | .82 | .83 AMP |
| | | | | 288.92 | 291.48 | 112.31 | 238.41 | 218.68 | 185.35 | 182.39 | 133.93 PHASE |
| 398 | -3.94 | 1.84 | 612 | .18 | .26 | .13 | .22 | .41 | .14 | .82 | .82 AMP |
| | | | | 98.17 | 388.89 | 98.44 | 336.18 | 182.17 | 112.68 | 21.88 | 139.42 PHASE |
| 391 | -4.75 | 1.95 | 611 | .26 | .35 | .15 | .28 | .23 | .88 | .83 | .82 AMP |
| | | | | 115.27 | 266.21 | 233.48 | 318.57 | 1.51 | 78.73 | 62.59 | 94.84 PHASE |
| 392 | -5.61 | 2.24 | 614 | .87 | .34 | .14 | .58 | .45 | .11 | .83 | .82 AMP |
| | | | | 78.52 | 297.53 | 388.87 | 358.68 | 284.22 | 123.23 | 26.88 | 142.83 PHASE |
| 393 | -6.28 | 2.65 | 612 | .17 | .62 | .19 | .44 | .24 | .39 | .85 | .83 AMP |
| | | | | 75.35 | 385.84 | 236.98 | 15.65 | 239.81 | 133.57 | 127.47 | 285.76 PHASE |
| 394 | -7.88 | 4.87 | 612 | .36 | .22 | .64 | .65 | .66 | .16 | .85 | .81 AMP |
| | | | | 175.58 | 289.62 | 388.31 | 312.84 | 161.91 | 322.44 | 385.12 | 173.84 PHASE |
| 395 | -7.82 | 3.67 | 611 | .22 | .73 | .62 | .71 | .28 | .24 | .88 | .87 AMP |
| | | | | 133.18 | 387.29 | 244.18 | 349.84 | 211.14 | 183.33 | 22.72 | 281.23 PHASE |
| 396 | -8.89 | 5.44 | 612 | .37 | .58 | .32 | .97 | 1.29 | .22 | .18 | .82 AMP |
| | | | | 68.22 | 271.88 | 221.89 | 287.46 | 159.76 | 18.85 | 75.23 | 168.29 PHASE |

TABLE V.- Continued

(a) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|
| RUN NO | | 38 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | 17.56 | 18.76 | 613 | 12.98 138.66 | 7.38 319.32 | 3.79 36.93 | .86 318.46 | .54 237.46 | .34 132.74 | .18 318.43 | .68 125.53 |
| 377 | 19.97 | 19.18 | 612 | 13.63 141.83 | 7.28 323.63 | 3.89 24.74 | .84 384.84 | .45 236.88 | .38 113.38 | .22 232.88 | .73 189.92 |
| 378 | 22.86 | 18.38 | 612 | 14.11 146.88 | 7.81 328.48 | 3.87 11.87 | .86 294.18 | .29 247.85 | .32 181.12 | .44 181.36 | .82 91.44 |
| 379 | 25.71 | 28.87 | 612 | 14.59 147.76 | 6.77 331.78 | 4.85 351.26 | .84 282.31 | .18 381.18 | .41 45.79 | .83 186.64 | 1.11 56.71 |
| 380 | 28.81 | 21.98 | 612 | 15.41 151.27 | 6.78 342.45 | 3.87 348.78 | 1.15 284.73 | .32 27.21 | .88 37.54 | 1.38 194.62 | 1.54 64.88 |
| 381 | 31.98 | 23.53 | 612 | 16.19 147.49 | 7.18 348.83 | 3.28 316.34 | 1.35 263.95 | .36 3.84 | .95 6.36 | 1.52 172.55 | 1.67 26.18 |
| 382 | 14.73 | 23.97 | 611 | 14.57 138.19 | 9.77 318.97 | 5.36 49.64 | 1.24 326.88 | .65 278.46 | .18 158.25 | .26 96.73 | .64 158.81 |
| 383 | 17.22 | 22.13 | 612 | 14.59 138.87 | 8.96 311.28 | 4.47 29.61 | 1.21 312.93 | .45 263.27 | .32 92.96 | .33 183.19 | .97 121.66 |
| 384 | 28.82 | 21.84 | 612 | 14.88 141.54 | 8.25 315.94 | 4.41 16.37 | 1.25 311.98 | .28 249.13 | .74 84.37 | .46 146.38 | 1.39 112.97 |
| 385 | 22.89 | 28.51 | 612 | 15.28 143.79 | 7.54 317.87 | 4.69 1.47 | 1.27 382.93 | .14 287.48 | .89 68.19 | .81 143.83 | 1.88 97.34 |
| 386 | 25.85 | 21.77 | 612 | 15.88 143.59 | 6.77 317.25 | 4.89 343.38 | 1.26 285.29 | .28 354.64 | 1.39 49.96 | 2.25 127.65 | 2.55 77.68 |
| 387 | 28.97 | 23.38 | 613 | 16.38 145.44 | 6.37 329.83 | 1.27 342.96 | 1.27 275.82 | .52 4.78 | 1.64 46.85 | .98 148.77 | 2.54 78.67 |
| 388 | 28.79 | 4.78 | 616 | 1.41 239.26 | 1.48 276.67 | 1.83 297.49 | .35 298.38 | .82 325.81 | .25 111.63 | .28 114.99 | .34 123.49 |
| 389 | 21.44 | 6.37 | 613 | .41 218.69 | 1.53 384.73 | 2.68 4.87 | .44 329.86 | .19 171.69 | .15 326.88 | .72 213.19 | .47 31.12 |
| 390 | 23.85 | 9.95 | 612 | .53 179.85 | .43 198.66 | 1.43 48.66 | .82 74.81 | .38 86.69 | .78 112.66 | .94 117.42 | .78 38.75 |
| 391 | 24.67 | 14.21 | 611 | 1.48 231.87 | 2.17 173.22 | 3.71 314.72 | .83 188.85 | .47 231.61 | 1.26 75.13 | .47 249.88 | 1.26 235.68 |
| 392 | 27.32 | 14.69 | 614 | 2.85 224.45 | 1.85 222.71 | 2.69 76.39 | .73 136.61 | .43 218.76 | .19 269.12 | .39 88.41 | .75 246.25 |
| 393 | 28.17 | 14.42 | 612 | 2.85 196.28 | 4.27 175.88 | 1.97 28.71 | .74 184.32 | .68 166.78 | 1.45 125.47 | 1.57 26.34 | 1.88 52.89 |
| 394 | 31.21 | 25.89 | 612 | .91 336.93 | 1.96 216.37 | 8.64 186.53 | 1.42 184.89 | .79 62.32 | .34 193.71 | 1.86 32.24 | .69 183.13 |
| 395 | 34.19 | 28.92 | 611 | .65 211.68 | 5.28 125.84 | 4.53 357.87 | 1.92 139.56 | .58 151.47 | .83 69.86 | 1.54 319.82 | 1.55 182.49 |
| 396 | 37.19 | 26.26 | 612 | .71 39.33 | 4.53 136.13 | 4.24 47.52 | 1.56 97.49 | .27 62.88 | .92 213.31 | 1.75 353.58 | .53 41.58 |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|
| RUN NO | | 38 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | 43.53 | 22.91 | 613 | 5.77 298.88 | 2.11 143.34 | 2.69 388.31 | 3.59 344.22 | 4.38 273.65 | 5.77 174.98 | 2.84 63.68 | 1.14 97.82 |
| 377 | 43.18 | 38.53 | 612 | 12.14 387.52 | 4.53 152.92 | 3.56 292.13 | 4.84 338.85 | 5.88 259.15 | 8.29 156.77 | 3.48 73.23 | 1.18 83.88 |
| 378 | 42.25 | 48.85 | 612 | 21.61 332.39 | 5.52 161.88 | 4.61 247.75 | 4.86 343.19 | 14.64 254.46 | 14.64 212.74 | 2.31 114.28 | 2.31 93.37 |
| 379 | 41.48 | 52.83 | 612 | 31.79 341.28 | 5.81 178.73 | 7.89 233.61 | 7.93 339.65 | 3.78 197.92 | 7.24 238.58 | .83 274.83 | 1.91 73.53 |
| 380 | 39.63 | 63.88 | 612 | 44.73 352.34 | 4.81 186.76 | 12.53 237.87 | 7.35 342.27 | 18.53 288.98 | 7.88 24.88 | 3.76 18.79 | 2.33 1.64 |
| 381 | 37.28 | 79.75 | 612 | 57.89 352.83 | 6.13 287.47 | 13.39 227.84 | 6.47 318.46 | 13.14 177.15 | 15.29 38.28 | 4.49 358.25 | .64 327.79 |
| 382 | 44.19 | 21.27 | 611 | 7.59 286.87 | 3.24 129.98 | 3.26 388.11 | 4.88 338.88 | 5.82 263.63 | 2.91 218.93 | 1.94 95.13 | 1.86 125.88 |
| 383 | 43.85 | 25.41 | 612 | 11.62 288.98 | 5.88 136.78 | 4.98 283.86 | 4.11 319.15 | 7.88 258.45 | 2.37 282.77 | 2.86 49.76 | 1.68 122.52 |
| 384 | 42.24 | 39.14 | 612 | 18.58 387.71 | 6.83 141.68 | 4.28 266.56 | 7.69 324.28 | 7.22 255.46 | 18.88 156.43 | 5.78 54.12 | 1.69 85.89 |
| 385 | 41.35 | 53.81 | 612 | 27.23 325.35 | 7.42 148.78 | 6.47 248.67 | 9.86 329.31 | 3.65 259.97 | 12.95 174.96 | 3.34 83.29 | 3.77 72.68 |
| 386 | 39.95 | 64.57 | 612 | 37.74 334.93 | 6.88 136.67 | 18.57 225.78 | 18.41 318.15 | .63 111.89 | 4.23 116.87 | 2.97 292.79 | 3.44 51.68 |
| 387 | 38.16 | 79.93 | 613 | 49.52 343.84 | 5.45 142.84 | 14.29 235.82 | 18.81 324.55 | 5.39 157.51 | 6.27 21.88 | 9.95 312.86 | 3.99 36.22 |
| 388 | 42.25 | 11.22 | 616 | .47 283.87 | .47 162.49 | .53 159.31 | .64 236.67 | 1.28 152.64 | 1.68 195.84 | .44 48.63 | .56 114.74 |
| 389 | 41.28 | 13.61 | 613 | .33 292.22 | .47 176.32 | 1.47 276.29 | 1.33 297.48 | .94 145.52 | 1.23 232.42 | .52 138.85 | .44 18.59 |
| 390 | 39.19 | 38.65 | 612 | .62 387.67 | .24 132.27 | 1.55 293.78 | 3.55 52.62 | 5.96 296.27 | 8.91 137.36 | 1.47 15.85 | .82 2.95 |
| 391 | 37.31 | 39.26 | 611 | .48 22.82 | 2.82 52.27 | 2.35 238.28 | 4.78 6.85 | 9.65 116.21 | 6.11 168.33 | .78 2.24 | .86 285.58 |
| 392 | 36.68 | 44.53 | 614 | 1.16 356.27 | 2.42 96.66 | 2.64 351.35 | 4.84 84.52 | 1.29 1.59 | 9.68 234.93 | 3.38 267.93 | .82 253.88 |
| 393 | 35.55 | 56.36 | 612 | 3.71 357.59 | 5.89 64.96 | 2.81 311.77 | 3.86 131.23 | 2.63 145.16 | 11.91 279.87 | 2.96 271.68 | 1.38 35.55 |
| 394 | 34.33 | 71.88 | 612 | 3.44 352.79 | 3.46 188.21 | 9.34 8.57 | 9.45 49.63 | 13.85 245.52 | 12.34 115.34 | 3.66 246.46 | 1.78 157.37 |
| 395 | 32.52 | 86.86 | 611 | 6.82 188.42 | 8.13 188.51 | 7.68 8.87 | 12.27 18.43 | 4.84 18.78 | 11.29 286.45 | 9.68 281.77 | 3.38 88.71 |
| 396 | 31.41 | 182.81 | 612 | 18.42 352.87 | 18.51 28.29 | 8.87 298.36 | 18.43 13.65 | 18.78 196.58 | 14.31 152.28 | 8.24 213.52 | 1.63 147.28 |

TABLE V.- Continued

(a) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | -7.48 | 3.38 | 613 | 3.26 | .58 | .89 | .87 | .15 | .82 | .82 | .84 |
| | | | | 154.54 | 29.79 | 47.48 | 185.92 | 296.72 | 186.72 | 73.86 | 132.22 |
| 377 | -7.67 | 3.47 | 612 | 3.24 | .61 | .86 | .87 | .16 | .89 | .83 | .84 |
| | | | | 146.83 | 11.76 | 86.36 | 194.58 | 389.41 | 169.94 | 61.13 | 87.12 |
| 378 | -7.95 | 3.61 | 612 | 3.29 | .75 | .12 | .15 | .88 | .83 | .85 | .84 |
| | | | | 137.26 | 12.82 | 282.26 | 198.92 | 223.97 | 152.28 | 159.51 | 48.79 |
| 379 | -8.21 | 3.96 | 612 | 3.38 | .97 | .23 | .17 | .21 | .87 | .88 | .86 |
| | | | | 127.48 | 12.68 | 288.96 | 167.41 | 199.83 | 188.87 | 218.54 | 13.87 |
| 388 | -8.58 | 4.52 | 612 | 3.42 | 1.38 | .41 | .36 | .38 | .18 | .18 | .11 |
| | | | | 117.74 | 18.83 | 283.57 | 132.16 | 177.98 | 283.68 | 274.48 | 33.53 |
| 381 | -8.65 | 5.16 | 612 | 3.77 | 1.82 | .64 | .52 | .39 | .14 | .13 | .15 |
| | | | | 182.75 | 12.61 | 281.79 | 89.92 | 138.93 | 233.48 | 268.52 | 347.67 |
| 382 | -7.82 | 3.32 | 611 | 3.28 | .86 | .52 | .14 | .19 | .13 | .87 | .86 |
| | | | | 158.14 | 86.66 | 98.55 | 21.53 | 386.71 | 166.16 | 72.97 | 74.45 |
| 383 | -7.32 | 3.19 | 612 | 3.19 | .38 | .33 | .86 | .15 | .11 | .84 | .85 |
| | | | | 149.43 | 17.64 | 62.11 | 193.57 | 268.72 | 127.81 | 5.47 | 78.76 |
| 384 | -7.61 | 3.55 | 612 | 3.22 | .48 | .17 | .22 | .11 | .13 | .85 | .86 |
| | | | | 141.36 | 13.67 | 184.59 | 181.84 | 258.11 | 174.35 | 67.25 | 71.28 |
| 385 | -7.91 | 3.74 | 612 | 3.22 | .76 | .19 | .36 | .18 | .85 | .85 | .88 |
| | | | | 131.92 | 18.12 | 154.69 | 179.56 | 288.15 | 118.81 | 144.26 | 58.24 |
| 386 | -8.18 | 4.35 | 612 | 3.26 | 1.11 | .34 | .55 | .36 | .89 | .82 | .11 |
| | | | | 119.51 | 18.22 | 161.66 | 178.18 | 288.18 | 52.19 | 235.33 | 51.88 |
| 387 | -8.48 | 4.98 | 613 | 3.58 | 1.65 | .65 | .66 | .41 | .27 | .89 | .14 |
| | | | | 187.98 | 26.25 | 172.91 | 183.85 | 244.24 | 18.83 | 59.83 | 84.51 |
| 388 | -6.42 | .76 | 616 | .25 | .18 | .12 | .83 | .11 | .86 | .82 | .81 |
| | | | | 318.51 | 242.58 | 62.89 | 98.28 | 141.89 | 157.86 | 297.61 | 85.92 |
| 389 | -6.73 | .84 | 613 | .83 | .18 | .85 | .89 | .17 | .88 | .83 | .88 |
| | | | | 168.28 | 388.88 | 139.59 | 265.19 | 243.97 | .34 | 192.12 | 39.11 |
| 398 | -7.81 | 1.54 | 612 | .15 | .22 | .87 | .17 | .34 | .13 | .85 | .82 |
| | | | | 182.99 | 389.31 | 184.83 | 353.37 | 285.88 | 146.75 | 94.69 | 19.29 |
| 391 | -7.61 | 1.61 | 611 | .18 | .26 | .11 | .22 | .19 | .88 | .84 | .82 |
| | | | | 114.48 | 282.23 | 263.48 | 331.89 | 28.42 | 187.89 | 212.18 | 182.13 |
| 392 | -8.24 | 1.74 | 614 | .87 | .28 | .89 | .42 | .35 | .89 | .84 | .83 |
| | | | | 77.52 | 386.43 | 351.81 | 18.32 | 386.84 | 152.53 | 83.18 | 221.93 |
| 393 | -8.71 | 2.25 | 612 | .13 | .39 | .12 | .38 | .19 | .37 | .85 | .85 |
| | | | | 93.71 | 316.89 | 257.62 | 33.31 | 267.11 | 156.84 | 64.37 | 21.87 |
| 394 | -9.24 | 3.82 | 612 | .24 | .16 | .42 | .45 | .45 | .12 | .88 | .81 |
| | | | | 175.38 | 293.57 | 333.68 | 329.97 | 181.38 | 332.57 | .29 | 91.77 |
| 395 | -9.82 | 3.21 | 611 | .18 | .48 | .46 | .51 | .16 | .26 | .13 | .83 |
| | | | | 138.32 | 316.68 | 266.13 | 9.73 | 241.52 | 122.89 | 12.91 | 164.84 |
| 396 | -9.96 | 4.24 | 612 | .37 | .19 | .68 | .97 | .16 | .16 | .12 | .82 |
| | | | | 85.96 | 281.66 | 237.66 | 387.34 | 183.48 | 32.96 | 44.18 | 7.68 |

TABLE V.- Continued

(a) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 38 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 376 | -2.88 | 28.75 | 613 | 13.73 | 7.69 | 2.46 | 1.55 | 1.32 | .16 | .33 | .78 | AMP |
| 377 | -.41 | 21.67 | 612 | 136.18 | 316.13 | 346.85 | 114.52 | 223.88 | 158.21 | 134.84 | 388.92 | PHASE |
| 378 | 2.69 | 22.15 | 612 | 14.42 | 7.59 | 3.83 | 1.75 | 1.18 | .17 | .19 | .83 | AMP |
| 379 | 5.82 | 23.56 | 612 | 139.83 | 314.89 | 348.18 | 183.83 | 281.18 | 135.75 | 85.58 | 288.49 | PHASE |
| 380 | 9.23 | 26.68 | 612 | 14.88 | 7.35 | 3.92 | 1.98 | 2.18 | .22 | .48 | .93 | AMP |
| 381 | 12.67 | 28.74 | 612 | 142.35 | 387.61 | 352.45 | 88.38 | 147.23 | 169.92 | .71 | 263.48 | PHASE |
| 382 | -5.59 | 24.33 | 611 | 15.32 | 7.82 | 4.69 | 2.31 | 3.53 | .17 | .83 | 1.38 | AMP |
| 383 | -3.18 | 24.23 | 612 | 143.14 | 388.68 | 358.11 | 52.51 | 136.36 | 168.23 | .57 | 232.97 | PHASE |
| 384 | -.31 | 25.43 | 612 | 16.38 | 6.78 | 5.12 | 3.16 | 4.83 | .28 | 1.25 | 1.68 | AMP |
| 385 | 2.73 | 27.38 | 612 | 146.38 | 388.82 | 354.81 | 34.43 | 137.43 | 198.13 | 358.16 | 233.54 | PHASE |
| 386 | 5.98 | 29.23 | 612 | 17.38 | 6.88 | 5.11 | 3.96 | 5.49 | .35 | 1.52 | 1.74 | AMP |
| 387 | 9.26 | 29.97 | 613 | 143.96 | 293.71 | 345.88 | 9.64 | 114.39 | 161.83 | 328.29 | 193.93 | PHASE |
| 388 | .79 | 6.93 | 616 | 15.34 | 9.91 | 3.17 | 2.82 | .98 | .66 | .26 | .87 | AMP |
| 389 | 4.58 | 8.56 | 613 | 136.15 | 313.92 | 358.78 | 133.82 | 288.88 | 189.68 | 227.15 | 323.96 | PHASE |
| 390 | 7.47 | 15.66 | 612 | 15.24 | 9.31 | 3.46 | 2.87 | .91 | .26 | 1.14 | 1.63 | AMP |
| 391 | 12.81 | 18.79 | 611 | 135.94 | 387.95 | 342.73 | 96.95 | 282.25 | 182.48 | 276.25 | 298.52 | PHASE |
| 392 | 17.31 | 19.74 | 614 | 15.66 | 8.82 | 4.25 | 2.69 | 1.71 | .62 | .51 | 1.63 | AMP |
| 393 | 21.97 | 28.85 | 612 | 139.31 | 384.94 | 343.72 | 79.94 | 151.35 | 187.84 | 314.69 | 298.62 | PHASE |
| 394 | 27.84 | 26.94 | 612 | 15.97 | 8.48 | 5.88 | 3.51 | 3.55 | .88 | 1.11 | 2.28 | AMP |
| 395 | 32.37 | 28.63 | 611 | 148.59 | 297.68 | 345.84 | 62.59 | 131.71 | 179.15 | 389.76 | 275.69 | PHASE |
| 396 | 35.49 | 38.86 | 612 | 16.64 | 8.88 | 5.58 | 4.65 | 5.22 | 1.85 | 1.62 | 2.75 | AMP |
| | | | | 148.84 | 289.84 | 343.25 | 43.67 | 123.57 | 166.35 | 287.19 | 255.53 | PHASE |
| | | | | 17.21 | 7.75 | 5.84 | 5.55 | 5.67 | 1.27 | 1.67 | 3.86 | AMP |
| | | | | 143.17 | 293.87 | 381.17 | 38.17 | 135.72 | 188.89 | 295.85 | 261.18 | PHASE |
| | | | | 2.14 | 2.94 | 1.12 | 1.12 | .65 | .18 | .35 | .72 | AMP |
| | | | | 123.37 | 279.97 | 384.27 | 85.46 | 92.83 | 164.89 | 299.92 | 382.13 | PHASE |
| | | | | .77 | 2.14 | 1.28 | 1.68 | 1.87 | .11 | .88 | .72 | AMP |
| | | | | 258.32 | 388.84 | 21.85 | 113.64 | 199.64 | 185.62 | 31.29 | 289.76 | PHASE |
| | | | | .13 | .56 | .73 | 1.36 | 2.54 | .68 | 1.84 | 1.11 | AMP |
| | | | | 188.83 | 178.18 | 115.98 | 287.43 | 152.92 | 118.93 | 384.94 | 218.35 | PHASE |
| | | | | 2.63 | 3.64 | .81 | .46 | 2.52 | .37 | 1.22 | .73 | AMP |
| | | | | 268.15 | 181.93 | 293.24 | 199.64 | 328.46 | 111.41 | 64.65 | 56.61 | PHASE |
| | | | | 2.87 | 2.82 | .64 | 2.12 | 2.69 | .32 | 1.28 | 1.41 | AMP |
| | | | | 251.58 | 226.58 | 171.87 | 232.63 | 258.37 | 234.78 | 214.88 | 68.66 | PHASE |
| | | | | 2.21 | 5.88 | .31 | .61 | 1.63 | 1.43 | 1.95 | 1.34 | AMP |
| | | | | 287.85 | 198.14 | 89.88 | 145.91 | 165.62 | 195.45 | 198.32 | 236.11 | PHASE |
| | | | | .94 | 3.42 | 3.89 | 2.68 | 3.56 | .35 | 1.22 | .89 | AMP |
| | | | | 62.64 | 272.89 | 124.41 | 219.64 | 112.72 | 78.19 | 189.97 | 358.64 | PHASE |
| | | | | 3.26 | 6.81 | 4.85 | 3.57 | 3.32 | .51 | 1.38 | 2.15 | AMP |
| | | | | 213.56 | 124.19 | 57.42 | 298.37 | 284.26 | 295.79 | 136.85 | 278.17 | PHASE |
| | | | | 2.25 | 6.59 | 2.85 | 2.88 | 6.93 | .23 | 1.87 | .71 | AMP |
| | | | | 344.64 | 117.55 | 64.59 | 177.38 | 133.11 | 247.16 | 159.75 | 236.24 | PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 38 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 376 | 59.68 | 17.15 | 613 | 7.52 | 4.89 | 2.68 | .97 | 2.39 | 2.27 | .87 | .35 | AMP |
| 377 | 68.87 | 17.83 | 612 | 143.53 | 313.22 | 342.91 | 28.85 | 248.72 | 166.11 | 77.15 | 388.89 | PHASE |
| 378 | 1.48 | 16.44 | 612 | 6.26 | 4.84 | 3.81 | 1.28 | 2.57 | 3.32 | 1.49 | .32 | AMP |
| 379 | 66.26 | 14.58 | 612 | 158.18 | 318.44 | 335.26 | 2.34 | 236.78 | 146.86 | 74.51 | 355.88 | PHASE |
| 380 | 68.99 | 16.68 | 612 | 3.72 | 3.33 | 2.73 | 2.72 | 1.75 | 5.89 | .91 | .49 | AMP |
| 381 | 71.38 | 22.75 | 612 | 148.17 | 382.36 | 323.68 | .82 | 191.88 | 281.85 | 118.68 | 94.53 | PHASE |
| 382 | 59.78 | 19.86 | 611 | 1.43 | 2.97 | 3.12 | 3.74 | 3.84 | 2.82 | .44 | .28 | AMP |
| 383 | 59.89 | 18.97 | 612 | 127.45 | 388.44 | 297.42 | 351.43 | 148.18 | 213.46 | 291.88 | 182.22 | PHASE |
| 384 | 61.59 | 18.92 | 612 | 1.96 | 2.84 | 4.88 | 4.36 | 5.19 | 3.89 | 1.98 | 1.31 | AMP |
| 385 | 64.26 | 18.39 | 612 | 26.35 | 318.97 | 278.33 | 348.64 | 162.87 | 29.39 | 9.94 | 285.75 | PHASE |
| 386 | 66.87 | 21.28 | 612 | 4.39 | 3.14 | 4.27 | 4.47 | 6.17 | 6.51 | 2.39 | 1.72 | AMP |
| 387 | 69.45 | 22.44 | 613 | 3.48 | 384.79 | 257.91 | 323.85 | 139.87 | 38.87 | 347.72 | 275.68 | PHASE |
| 388 | 62.43 | 8.85 | 616 | 8.57 | 6.34 | 3.14 | .56 | 2.76 | 1.47 | .73 | .21 | AMP |
| 389 | 63.58 | 8.52 | 613 | 144.85 | 312.31 | 348.86 | 41.39 | 262.32 | 288.63 | 111.33 | 36.41 | PHASE |
| 390 | 63.67 | 14.95 | 612 | 7.68 | 5.12 | 3.28 | 1.81 | 3.37 | .85 | .96 | .85 | AMP |
| 391 | 64.85 | 16.88 | 611 | 148.72 | 384.15 | 327.83 | 15.94 | 236.38 | 256.18 | 45.98 | 381.56 | PHASE |
| 392 | 65.98 | 21.85 | 614 | 5.69 | 4.85 | 3.33 | 2.62 | 2.37 | 4.88 | 2.88 | .67 | AMP |
| 393 | 68.27 | 25.39 | 612 | 158.24 | 381.88 | 325.89 | 358.97 | 228.54 | 147.72 | 47.14 | 325.48 | PHASE |
| 394 | 78.47 | 37.94 | 612 | 168.49 | 294.74 | 388.22 | 348.83 | 145.97 | 162.11 | 84.16 | 345.87 | PHASE |
| 395 | 71.97 | 43.18 | 611 | .57 | 2.28 | 3.73 | 5.21 | 3.43 | 3.14 | 1.79 | 1.21 | AMP |
| 396 | 73.48 | 46.35 | 612 | 146.98 | 294.15 | 278.83 | 338.68 | 182.82 | 189.88 | 264.27 | 279.24 | PHASE |
| | | | | 2.33 | 1.71 | 4.78 | 6.82 | 4.78 | 2.69 | 4.68 | 2.88 | AMP |
| | | | | 355.91 | 328.95 | 269.98 | 348.51 | 123.88 | 51.12 | 294.67 | 293.39 | PHASE |
| | | | | 1.38 | 1.97 | .67 | .55 | .83 | .79 | .28 | .18 | AMP |
| | | | | 131.39 | 276.57 | 295.69 | 94.12 | 117.58 | 183.83 | 348.76 | 23.23 | PHASE |
| | | | | .64 | 1.36 | 1.11 | .63 | 1.81 | .46 | .49 | .33 | AMP |
| | | | | 258.45 | 385.16 | 353.38 | 187.47 | 179.93 | 214.18 | 59.42 | 226.84 | PHASE |
| | | | | 2.26 | .44 | .17 | .71 | 1.32 | .78 | 4.18 | .66 | AMP |
| | | | | 216.86 | 156.12 | 38.82 | 85.38 | 233.65 | 127.38 | 328.28 | 239.41 | PHASE |
| | | | | 1.44 | 1.91 | 1.78 | 1.98 | 2.84 | 2.66 | .74 | .34 | AMP |
| | | | | 257.24 | 168.57 | 273.89 | 91.65 | 88.51 | 145.66 | 37.68 | 188.87 | PHASE |
| | | | | .99 | 1.19 | .94 | 1.58 | 2.87 | 4.46 | .54 | .49 | AMP |
| | | | | 248.44 | 176.66 | 34.45 | 119.42 | 282.72 | 229.67 | 229.73 | 48.84 | PHASE |
| | | | | .61 | 3.18 | 1.89 | 2.86 | 2.45 | 4.19 | 1.64 | .53 | AMP |
| | | | | 246.63 | 147.21 | 348.88 | 138.11 | 149.38 | 264.84 | 224.47 | 277.74 | PHASE |
| | | | | 1.46 | 1.17 | 5.61 | 2.66 | 3.23 | 4.81 | 1.98 | .13 | AMP |
| | | | | 354.56 | 212.24 | 68.99 | 71.86 | 288.96 | 186.34 | 221.95 | 185.52 | PHASE |
| | | | | 1.86 | 4.82 | 3.46 | 2.81 | 3.96 | 4.39 | 3.91 | .43 | AMP |
| | | | | 278.25 | 82.19 | 332.57 | 181.78 | 175.88 | 285.38 | 186.83 | 327.83 | PHASE |
| | | | | 3.87 | 4.92 | 2.95 | 2.64 | 7.59 | 5.99 | 4.11 | .76 | AMP |
| | | | | 341.42 | 75.37 | 347.87 | 42.37 | 147.86 | 151.88 | 195.28 | 173.25 | PHASE |

TABLE V.- Continued

(a) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | -4.95 | 2.25 | 613 | 1.93 | .31 | .87 | .85 | .11 | .84 | .85 | .83 AMP |
| | | | | 158.86 | 69.34 | 218.48 | 117.21 | 289.37 | 133.82 | 27.88 | 115.22 PHASE |
| 377 | -5.18 | 2.25 | 612 | 1.89 | .24 | .88 | .84 | .12 | .88 | .86 | .82 AMP |
| | | | | 139.34 | 52.51 | 283.92 | 145.36 | 291.88 | 139.22 | 14.92 | 72.53 PHASE |
| 378 | -5.24 | 2.42 | 612 | 1.94 | .25 | .16 | .14 | .18 | .82 | .88 | .82 AMP |
| | | | | 126.32 | 38.53 | 188.34 | 172.93 | 285.23 | 115.38 | 187.36 | 27.55 PHASE |
| 379 | -5.36 | 2.48 | 612 | 2.83 | .33 | .21 | .28 | .18 | .85 | .86 | .85 AMP |
| | | | | 113.59 | 21.85 | 177.85 | 169.29 | 237.12 | 58.94 | 145.18 | 26.27 PHASE |
| 388 | -5.49 | 2.94 | 612 | 2.28 | .53 | .27 | .32 | .14 | .84 | .88 | .18 AMP |
| | | | | 182.76 | 19.63 | 167.48 | 153.56 | 198.17 | 142.88 | 221.82 | 36.45 PHASE |
| 381 | -5.46 | 3.52 | 612 | 2.68 | .78 | .32 | .37 | .11 | .86 | .13 | .11 AMP |
| | | | | 89.51 | 11.15 | 158.75 | 118.29 | 132.16 | 188.51 | 218.36 | 358.24 PHASE |
| 382 | -4.76 | 2.14 | 611 | 1.85 | .26 | .21 | .28 | .15 | .86 | .85 | .86 AMP |
| | | | | 155.88 | 125.54 | 139.83 | 55.68 | 382.38 | 145.82 | 59.41 | 112.85 PHASE |
| 383 | -4.93 | 2.14 | 612 | 1.83 | .23 | .89 | .86 | .14 | .88 | .84 | .85 AMP |
| | | | | 144.68 | 94.41 | 124.13 | 93.87 | 278.19 | 185.75 | 49.44 | 72.91 PHASE |
| 384 | -5.89 | 2.42 | 612 | 1.87 | .28 | .16 | .14 | .18 | .12 | .11 | .86 AMP |
| | | | | 132.63 | 76.18 | 144.88 | 161.48 | 268.65 | 129.36 | 59.42 | 89.48 PHASE |
| 385 | -5.22 | 2.54 | 612 | 1.94 | .27 | .24 | .28 | .19 | .87 | .15 | .89 AMP |
| | | | | 119.78 | 46.32 | 147.31 | 168.42 | 249.44 | 67.12 | 81.39 | 85.76 PHASE |
| 386 | -5.34 | 2.83 | 612 | 2.11 | .41 | .32 | .46 | .38 | .13 | .15 | .14 AMP |
| | | | | 185.88 | 26.47 | 139.33 | 164.35 | 228.77 | 14.92 | 63.26 | 71.61 PHASE |
| 387 | -5.43 | 3.48 | 613 | 2.48 | .69 | .48 | .58 | .35 | .24 | .18 | .14 AMP |
| | | | | 93.66 | 38.12 | 146.64 | 176.25 | 244.32 | 22.82 | 87.23 | 82.87 PHASE |
| 388 | -4.41 | .58 | 616 | 2.6 | .18 | .13 | .82 | .84 | .83 | .82 | .82 AMP |
| | | | | 298.98 | 255.49 | 93.63 | 51.68 | 177.86 | 168.32 | 111.81 | 114.48 PHASE |
| 389 | -4.72 | .63 | 613 | .82 | .87 | .11 | .86 | .86 | .82 | .85 | .85 AMP |
| | | | | 179.48 | 297.38 | 198.18 | 277.87 | 258.52 | 388.43 | 214.16 | 21.11 PHASE |
| 398 | -4.93 | 1.84 | 612 | .88 | .18 | .81 | .11 | .15 | .86 | .89 | .87 AMP |
| | | | | 76.53 | 312.95 | 146.52 | 2.22 | 215.63 | 167.88 | 111.88 | 28.38 PHASE |
| 391 | -5.39 | 1.33 | 611 | .17 | .28 | .18 | .18 | .82 | .89 | .89 | .89 AMP |
| | | | | 86.32 | 323.43 | 288.51 | 358.37 | 47.46 | 35.88 | 225.84 | 224.95 PHASE |
| 392 | -5.94 | 1.62 | 614 | .11 | .26 | .89 | .22 | .14 | .84 | .81 | .85 AMP |
| | | | | 52.98 | 333.89 | 342.93 | 21.53 | 296.97 | 134.64 | 75.33 | 282.93 PHASE |
| 393 | -6.23 | 1.96 | 612 | .13 | .44 | .88 | .14 | .88 | .28 | .11 | .86 AMP |
| | | | | 65.91 | 345.48 | 267.83 | 38.48 | 258.81 | 131.49 | 6.88 | 82.88 PHASE |
| 394 | -6.62 | 2.31 | 612 | .23 | .12 | .41 | .19 | .24 | .89 | .18 | .83 AMP |
| | | | | 187.23 | 28.89 | 337.18 | 334.81 | 175.52 | 299.16 | 358.19 | 88.41 PHASE |
| 395 | -7.89 | 2.37 | 611 | .14 | .47 | .32 | .28 | .82 | .19 | .11 | .11 AMP |
| | | | | 83.51 | 322.72 | 252.58 | 21.72 | 289.55 | 187.15 | 355.81 | 94.67 PHASE |
| 396 | -7.18 | 2.77 | 612 | .27 | .39 | .14 | .32 | .43 | .11 | .14 | .87 AMP |
| | | | | 189.28 | 312.51 | 265.88 | 289.94 | 169.88 | 389.81 | 354.16 | 7.35 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 376 | 4.78 | 2.95 | 613 | 1.95 | .37 | .52 | .46 | .22 | .17 | .11 | .18 AMP |
| | | | | 313.81 | 172.86 | 234.21 | 94.36 | 147.21 | 88.52 | 22.84 | 82.63 PHASE |
| 377 | 5.84 | 4.87 | 612 | 3.15 | .88 | .73 | .28 | .43 | .88 | .11 | .16 AMP |
| | | | | 298.12 | 155.74 | 283.24 | 111.85 | 147.72 | 23.82 | 311.13 | 81.88 PHASE |
| 378 | 5.29 | 4.43 | 612 | 3.15 | .98 | .29 | .33 | .31 | .24 | .84 | .16 AMP |
| | | | | 289.32 | 188.25 | 53.54 | 84.33 | 95.96 | 47.45 | 386.75 | 64.98 PHASE |
| 379 | 5.45 | 5.84 | 612 | 3.59 | 1.37 | .57 | .26 | .54 | .32 | .89 | .18 AMP |
| | | | | 272.19 | 186.18 | 46.18 | 53.14 | 73.41 | 21.12 | 169.48 | 42.18 PHASE |
| 388 | 5.65 | 7.66 | 612 | 4.44 | 1.95 | .95 | .41 | .89 | .57 | .36 | .28 AMP |
| | | | | 253.49 | 195.45 | 46.44 | 317.42 | 45.28 | 26.15 | 168.58 | 54.28 PHASE |
| 381 | 5.81 | 9.68 | 612 | 6.38 | 2.45 | 1.44 | .77 | .95 | .55 | .54 | .35 AMP |
| | | | | 241.32 | 185.84 | 43.81 | 291.87 | 25.67 | 341.86 | 138.59 | 42.32 PHASE |
| 382 | 3.54 | 3.87 | 611 | 2.68 | .82 | .76 | .43 | .81 | .28 | .84 | .13 AMP |
| | | | | 346.88 | 26.91 | 237.89 | 121.62 | 193.68 | 31.76 | 185.92 | 82.17 PHASE |
| 383 | 4.83 | 3.69 | 612 | 2.51 | .37 | .69 | .49 | .17 | .19 | .13 | .28 AMP |
| | | | | 382.78 | 121.58 | 237.82 | 188.94 | 189.21 | 75.21 | 69.97 | 67.69 PHASE |
| 384 | 4.36 | 4.19 | 612 | 2.79 | .64 | .23 | .45 | .26 | .32 | .89 | .27 AMP |
| | | | | 286.59 | 165.87 | 273.11 | 74.11 | 98.46 | 63.45 | 116.11 | 72.81 PHASE |
| 385 | 4.68 | 4.95 | 612 | 3.21 | 1.18 | .32 | .58 | .53 | .48 | .19 | .39 AMP |
| | | | | 271.21 | 189.72 | 357.62 | 49.92 | 77.17 | 41.76 | 111.85 | 68.68 PHASE |
| 386 | 4.99 | 6.52 | 612 | 4.88 | 1.69 | .62 | .81 | .88 | .58 | .35 | .48 AMP |
| | | | | 252.37 | 196.86 | 21.22 | 57.78 | 23.57 | 94.75 | 49.19 | 49.19 PHASE |
| 387 | 5.25 | 8.41 | 613 | 5.58 | 2.48 | 1.13 | 1.82 | 1.89 | .46 | .31 | .56 AMP |
| | | | | 241.78 | 286.48 | 14.41 | 19.71 | 68.34 | 49.49 | 126.47 | 46.36 PHASE |
| 388 | 4.28 | 2.78 | 616 | 2.82 | .12 | .31 | .85 | .11 | .88 | .18 | .83 AMP |
| | | | | 157.63 | 79.65 | 156.31 | 386.21 | 327.48 | 45.64 | 146.39 | 84.73 PHASE |
| 389 | 5.87 | 2.54 | 613 | 1.48 | .81 | .22 | .22 | .22 | .83 | .87 | .18 AMP |
| | | | | 188.36 | 69.65 | 165.18 | 78.34 | 93.83 | 338.85 | 198.81 | 354.32 PHASE |
| 398 | 5.98 | 4.19 | 612 | 1.89 | .15 | .17 | .41 | .48 | .17 | .15 | .12 AMP |
| | | | | 278.52 | 145.96 | 144.26 | 191.94 | 67.13 | 34.24 | 93.25 | 6.42 PHASE |
| 391 | 6.58 | 4.86 | 611 | 1.77 | .89 | .11 | .44 | .12 | .28 | .19 | .11 AMP |
| | | | | 318.22 | 242.98 | 98.22 | 173.74 | 258.74 | 352.52 | 218.48 | 281.38 PHASE |
| 392 | 7.22 | 4.81 | 614 | 1.64 | .23 | .32 | .88 | .58 | .87 | .11 | .88 AMP |
| | | | | 336.75 | 179.89 | 186.86 | 289.23 | 165.78 | 349.47 | 72.81 | 234.74 PHASE |
| 393 | 7.61 | 5.88 | 612 | 1.52 | .34 | .16 | .43 | .29 | .38 | .27 | .25 AMP |
| | | | | 325.38 | 193.18 | 189.81 | 226.54 | 123.34 | 59.85 | 7.65 | 31.75 PHASE |
| 394 | 8.86 | 6.84 | 612 | 1.61 | .88 | .71 | .98 | .92 | .19 | .28 | .86 AMP |
| | | | | 326.15 | 171.88 | 284.27 | 177.31 | 37.82 | 158.48 | 358.59 | 129.12 PHASE |
| 395 | 8.27 | 8.17 | 611 | 1.58 | .79 | .88 | .97 | .25 | .28 | .25 | .32 AMP |
| | | | | 323.42 | 182.18 | 98.29 | 216.33 | 143.43 | 13.65 | 295.83 | 69.28 PHASE |
| 396 | 8.68 | 8.88 | 612 | 1.14 | .45 | .34 | .12 | .43 | .27 | .37 | .88 AMP |
| | | | | 295.23 | 189.12 | 188.27 | 147.97 | 36.18 | 217.42 | 328.67 | 322.13 PHASE |

TABLE V.- Continued

(b) $\mu = 0.30$; $M_T = 0.65$

| PT. | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|----------|----------|----------|
| 355 | .02068 | | |
| 356 | .03137 | .00244 | .00139 |
| 357 | .05307 | .00188 | .00161 |
| 358 | .06898 | .00218 | .00174 |
| 359 | .08317 | .00214 | .00214 |
| 360 | .01556 | .00125 | .00296 |
| 361 | .03175 | .00140 | .00167 |
| 362 | .04650 | -.00040 | .00211 |
| 363 | .05982 | -.00211 | .00283 |
| 364 | .06976 | -.00384 | .00368 |
| 365 | .07599 | -.00471 | .00419 |
| 366 | .08290 | -.00552 | .00470 |
| 367 | .01170 | -.00659 | .00529 |
| 368 | .02534 | .00054 | .00176 |
| 369 | .04122 | -.00208 | .00254 |
| 370 | .05418 | -.00512 | .00366 |
| 371 | .06382 | -.00819 | .00487 |
| 372 | .07034 | -.01017 | .00553 |
| 373 | .07868 | -.01157 | .00628 |
| | | -.01311 | .00695 |

TABLE V.- Continued

(b) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 355 | 41.49 | 34.88 | 612 | 12.43 | 15.22 | 11.85 | 6.98 | 4.78 | 2.58 | 3.18 | .69 AMP |
| | | | | 142.65 | 328.95 | 75.25 | 1.55 | 97.87 | 321.32 | 226.25 | 118.85 PHASE |
| 356 | 43.28 | 35.88 | 611 | 14.26 | 15.49 | 11.62 | 6.46 | 4.95 | 2.52 | 3.37 | .57 AMP |
| | | | | 144.98 | 337.65 | 83.91 | 14.93 | 119.49 | 348.61 | 249.75 | 139.83 PHASE |
| 357 | 45.87 | 33.69 | 611 | 14.13 | 15.15 | 11.88 | 6.26 | 3.85 | 2.45 | 2.76 | .58 AMP |
| | | | | 143.55 | 331.28 | 73.68 | 7.55 | 85.38 | 314.14 | 242.97 | 163.46 PHASE |
| 358 | 47.83 | 33.86 | 612 | 13.86 | 14.48 | 18.37 | 6.85 | 3.21 | 2.59 | 2.58 | .99 AMP |
| | | | | 142.29 | 333.68 | 76.58 | 16.61 | 86.88 | 323.58 | 247.73 | 167.88 PHASE |
| 359 | 49.67 | 31.71 | 612 | 13.32 | 13.52 | 9.81 | 5.51 | 2.22 | 2.14 | 2.73 | 1.43 AMP |
| | | | | 135.86 | 332.89 | 74.78 | 12.64 | 87.49 | 318.53 | 236.89 | 168.84 PHASE |
| 360 | 41.84 | 31.38 | 612 | 12.21 | 13.56 | 18.48 | 6.38 | 4.25 | 1.43 | 1.84 | .42 AMP |
| | | | | 152.33 | 348.82 | 85.52 | 19.96 | 136.14 | 5.52 | 258.63 | 62.84 PHASE |
| 361 | 44.37 | 38.26 | 612 | 12.34 | 13.48 | 9.96 | 5.81 | 4.46 | 1.35 | 1.73 | .45 AMP |
| | | | | 158.65 | 342.34 | 84.69 | 16.56 | 125.55 | 1.83 | 245.39 | 58.47 PHASE |
| 362 | 46.78 | 29.91 | 613 | 12.47 | 13.44 | 9.48 | 5.46 | 5.84 | 1.37 | 1.73 | .57 AMP |
| | | | | 145.26 | 336.75 | 75.28 | 5.88 | 118.89 | 347.55 | 226.44 | 42.11 PHASE |
| 363 | 49.13 | 38.48 | 612 | 12.55 | 13.38 | 8.89 | 5.43 | 6.82 | 1.49 | 1.68 | .39 AMP |
| | | | | 138.28 | 327.78 | 64.88 | 352.82 | 93.39 | 328.49 | 197.45 | 357.93 PHASE |
| 364 | 58.34 | 29.63 | 612 | 12.22 | 13.21 | 8.58 | 5.11 | 6.88 | 1.37 | 1.88 | .23 AMP |
| | | | | 141.59 | 339.57 | 81.25 | 14.99 | 128.19 | 353.57 | 232.22 | 54.62 PHASE |
| 365 | 51.29 | 29.63 | 613 | 12.11 | 13.89 | 8.16 | 4.84 | 6.24 | 1.42 | 1.76 | .16 AMP |
| | | | | 134.27 | 329.73 | 67.82 | 355.98 | 189.93 | 323.92 | 197.43 | 28.78 PHASE |
| 366 | 52.35 | 29.31 | 612 | 11.96 | 12.65 | 7.48 | 4.71 | 6.42 | 1.33 | 1.96 | .26 AMP |
| | | | | 129.84 | 328.16 | 65.68 | 352.73 | 187.46 | 388.28 | 195.89 | 61.88 PHASE |
| 367 | 42.98 | 27.88 | 612 | 18.86 | 11.78 | 8.72 | 5.35 | 4.63 | 1.92 | 1.97 | .58 AMP |
| | | | | 154.87 | 346.43 | 84.88 | 11.63 | 118.19 | 3.81 | 227.78 | 19.38 PHASE |
| 368 | 45.28 | 27.85 | 612 | 18.91 | 11.92 | 8.43 | 5.21 | 5.28 | 1.91 | 1.92 | .63 AMP |
| | | | | 148.68 | 342.34 | 75.68 | 358.29 | 94.81 | 355.79 | 218.86 | 356.23 PHASE |
| 369 | 47.82 | 27.84 | 612 | 18.79 | 12.81 | 8.87 | 5.17 | 5.41 | 1.78 | 2.11 | .54 AMP |
| | | | | 148.89 | 347.88 | 82.17 | 5.98 | 188.67 | 12.79 | 224.58 | 18.46 PHASE |
| 370 | 58.28 | 27.78 | 612 | 18.83 | 12.89 | 7.34 | 5.13 | 5.58 | 1.52 | 2.81 | .59 AMP |
| | | | | 141.88 | 341.96 | 77.27 | 359.64 | 188.42 | 6.25 | 211.89 | 344.12 PHASE |
| 371 | 51.71 | 26.79 | 611 | 18.74 | 11.97 | 6.88 | 4.93 | 5.58 | 1.22 | 2.83 | .52 AMP |
| | | | | 138.27 | 341.81 | 76.84 | 359.18 | 182.24 | 3.69 | 212.94 | 322.84 PHASE |
| 372 | 52.85 | 27.23 | 613 | 11.88 | 12.12 | 6.42 | 5.81 | 5.59 | 1.45 | 1.81 | .41 AMP |
| | | | | 134.87 | 339.47 | 72.88 | 355.14 | 181.36 | 356.32 | 212.83 | 318.13 PHASE |
| 373 | 54.88 | 26.87 | 612 | 18.95 | 12.19 | 6.86 | 4.97 | 5.68 | 1.81 | 2.89 | .43 AMP |
| | | | | 128.55 | 333.38 | 65.39 | 342.72 | 91.83 | 335.71 | 195.42 | 278.24 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 355 | 62.26 | 44.88 | 612 | 9.48 | 9.73 | 4.53 | 2.86 | 12.74 | 13.82 | 6.63 | 1.78 AMP |
| | | | | 277.77 | 143.28 | 295.93 | 193.78 | 284.58 | 232.38 | 133.89 | 36.82 PHASE |
| 356 | 68.49 | 47.61 | 611 | 11.22 | 12.93 | 7.63 | 4.82 | 11.95 | 18.89 | 6.97 | 1.87 AMP |
| | | | | 293.88 | 159.98 | 318.75 | 176.61 | 311.97 | 239.66 | 154.21 | 68.18 PHASE |
| 357 | 57.41 | 67.86 | 611 | 24.83 | 23.59 | 16.84 | 5.98 | 9.61 | 13.51 | 6.92 | .94 AMP |
| | | | | 389.23 | 164.78 | 294.25 | 152.71 | 285.28 | 181.88 | 133.14 | 338.75 PHASE |
| 358 | 55.32 | 82.17 | 612 | 39.19 | 31.83 | 21.15 | 5.38 | 8.19 | 16.53 | 6.24 | 1.23 AMP |
| | | | | 332.88 | 177.52 | 294.78 | 148.54 | 386.28 | 194.16 | 158.18 | 331.47 PHASE |
| 359 | 53.68 | 99.58 | 612 | 53.32 | 34.68 | 26.96 | 5.76 | 7.35 | 13.97 | 3.49 | 1.81 AMP |
| | | | | 348.87 | 183.11 | 285.96 | 112.85 | 381.84 | 288.87 | 156.88 | 321.87 PHASE |
| 360 | 59.45 | 43.83 | 612 | 8.85 | 14.35 | 9.42 | 5.52 | 7.74 | 9.47 | 4.66 | .93 AMP |
| | | | | 294.38 | 153.96 | 295.66 | 385.86 | 312.86 | 237.93 | 152.15 | 72.47 PHASE |
| 361 | 59.38 | 53.68 | 612 | 13.54 | 28.56 | 14.35 | 1.17 | 7.47 | 11.77 | 4.89 | .94 AMP |
| | | | | 386.13 | 163.29 | 297.18 | 183.33 | 388.41 | 228.48 | 143.74 | 53.85 PHASE |
| 362 | 59.66 | 69.43 | 613 | 28.95 | 26.99 | 18.68 | 2.11 | 8.13 | 12.53 | 6.53 | .79 AMP |
| | | | | 328.87 | 178.36 | 289.86 | 152.33 | 288.89 | 197.12 | 125.78 | 318.85 PHASE |
| 363 | 59.39 | 83.67 | 612 | 31.78 | 35.54 | 24.59 | 3.28 | 9.49 | 15.88 | 7.25 | 1.78 AMP |
| | | | | 329.72 | 172.87 | 275.44 | 123.92 | 262.73 | 174.98 | 118.78 | 269.86 PHASE |
| 364 | 58.88 | 91.98 | 612 | 41.33 | 36.37 | 28.14 | 4.84 | 9.87 | 14.32 | 6.79 | 2.59 AMP |
| | | | | 345.87 | 189.86 | 291.72 | 134.93 | 381.29 | 211.49 | 154.91 | 317.21 PHASE |
| 365 | 58.78 | 188.45 | 613 | 49.29 | 39.84 | 31.87 | 5.17 | 9.54 | 14.51 | 6.66 | 3.83 AMP |
| | | | | 345.53 | 183.65 | 278.86 | 114.46 | 277.92 | 189.18 | 132.88 | 277.18 PHASE |
| 366 | 58.38 | 188.18 | 612 | 57.65 | 48.88 | 35.14 | 6.62 | 9.54 | 11.72 | 6.12 | 3.61 AMP |
| | | | | 348.35 | 184.88 | 274.64 | 99.73 | 271.89 | 184.86 | 126.15 | 266.37 PHASE |
| 367 | 58.24 | 43.92 | 612 | 5.52 | 16.73 | 12.46 | 1.15 | 7.65 | 13.37 | 2.78 | .78 AMP |
| | | | | 278.21 | 171.84 | 292.46 | 388.25 | 318.98 | 258.81 | 168.41 | 59.26 PHASE |
| 368 | 59.36 | 57.79 | 612 | 9.18 | 22.86 | 16.93 | 1.66 | 7.98 | 15.97 | 3.94 | .48 AMP |
| | | | | 296.36 | 171.57 | 288.55 | 275.62 | 275.39 | 224.64 | 139.69 | 51.72 PHASE |
| 369 | 61.88 | 78.81 | 612 | 17.74 | 29.89 | 21.16 | 1.11 | 8.59 | 17.39 | 4.93 | .25 AMP |
| | | | | 332.55 | 186.88 | 291.88 | 311.43 | 276.25 | 241.13 | 153.88 | 348.86 PHASE |
| 370 | 62.37 | 83.87 | 612 | 28.59 | 35.46 | 26.98 | .54 | 18.71 | 18.18 | 5.61 | .51 AMP |
| | | | | 338.73 | 191.64 | 281.86 | 331.31 | 265.55 | 232.97 | 145.39 | 291.43 PHASE |
| 371 | 62.94 | 91.38 | 611 | 37.51 | 37.96 | 29.73 | 1.81 | 11.49 | 17.48 | 5.43 | .98 AMP |
| | | | | 346.28 | 195.85 | 281.82 | 61.62 | 264.74 | 236.72 | 148.95 | 285.75 PHASE |
| 372 | 63.85 | 187.98 | 613 | 48.88 | 42.66 | 33.78 | 1.56 | 11.67 | 16.78 | 6.27 | 1.74 AMP |
| | | | | 349.21 | 196.77 | 281.61 | 184.61 | 263.58 | 231.39 | 139.93 | 268.28 PHASE |
| 373 | 63.41 | 128.32 | 612 | 68.38 | 44.18 | 37.11 | 3.31 | 11.97 | 14.44 | 12.26 | 2.38 AMP |
| | | | | 353.27 | 194.43 | 274.13 | 187.18 | 248.95 | 215.77 | 127.32 | 268.23 PHASE |

TABLE V.- Continued

(b) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 38 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 355 | -2.46 | 18.75 | 612 | 7.88 | 3.29 | 2.17 | 1.62 | .47 | .91 | .34 | .36 | AMP |
| | | | | 157.16 | 381.89 | 128.13 | 3.94 | 74.13 | 318.43 | 214.51 | 158.89 | PHASE |
| 356 | -3.12 | 11.67 | 611 | 7.38 | 3.57 | 2.18 | 1.78 | .42 | .81 | .38 | .36 | AMP |
| | | | | 155.22 | 312.15 | 137.92 | 14.91 | 137.22 | 334.93 | 232.16 | 166.22 | PHASE |
| 357 | -4.29 | 11.56 | 611 | 7.25 | 3.58 | 2.16 | 1.86 | .47 | .59 | .58 | .21 | AMP |
| | | | | 148.84 | 383.54 | 146.86 | 6.78 | 188.86 | 299.47 | 199.34 | 156.35 | PHASE |
| 358 | -5.74 | 12.81 | 612 | 7.33 | 2.82 | 2.18 | 2.39 | .73 | .27 | .74 | .22 | AMP |
| | | | | 127.48 | 381.16 | 177.62 | 8.52 | 181.22 | 293.61 | 286.91 | 155.47 | PHASE |
| 359 | -7.25 | 13.16 | 612 | 7.63 | 1.93 | 1.94 | 2.65 | 1.85 | .32 | .68 | .39 | AMP |
| | | | | 111.28 | 291.87 | 289.93 | 4.23 | 98.42 | 176.68 | 288.84 | 133.48 | PHASE |
| 368 | -3.45 | 18.21 | 612 | 7.72 | 2.49 | 2.87 | 1.94 | .35 | .33 | .87 | .15 | AMP |
| | | | | 163.95 | 323.96 | 129.28 | 359.38 | 133.89 | 331.89 | 187.85 | 152.81 | PHASE |
| 361 | -3.99 | 11.86 | 612 | 7.88 | 3.88 | 1.67 | 1.96 | .44 | .36 | .17 | .14 | AMP |
| | | | | 158.23 | 329.88 | 139.97 | 356.99 | 142.84 | 317.85 | 198.68 | 186.94 | PHASE |
| 362 | -4.72 | 11.49 | 613 | 7.89 | 3.37 | 1.36 | 2.88 | .68 | .16 | .26 | .13 | AMP |
| | | | | 149.87 | 323.49 | 148.82 | 349.84 | 115.57 | 319.78 | 179.35 | 43.17 | PHASE |
| 363 | -5.65 | 12.57 | 612 | 7.87 | 3.51 | 1.43 | 2.16 | .99 | .15 | .41 | .16 | AMP |
| | | | | 135.94 | 318.77 | 174.14 | 345.98 | 99.75 | 298.21 | 153.86 | 37.84 | PHASE |
| 364 | -6.27 | 13.14 | 612 | 7.88 | 3.25 | 1.61 | 2.47 | 1.26 | .12 | .37 | .16 | AMP |
| | | | | 134.74 | 321.91 | 218.89 | 14.28 | 133.31 | 317.72 | 281.48 | 84.86 | PHASE |
| 365 | -6.98 | 14.88 | 613 | 7.94 | 2.97 | 1.93 | 2.88 | 1.68 | .11 | .48 | .14 | AMP |
| | | | | 121.97 | 388.84 | 215.32 | 3.32 | 114.54 | 262.88 | 174.14 | 38.26 | PHASE |
| 366 | -7.82 | 13.75 | 612 | 8.16 | 2.25 | 2.51 | 3.85 | 1.64 | .14 | .33 | .18 | AMP |
| | | | | 118.58 | 381.52 | 238.49 | 359.23 | 188.59 | 236.78 | 183.59 | 31.58 | PHASE |
| 367 | -4.26 | 9.81 | 612 | 8.83 | 2.78 | 1.89 | 1.55 | .38 | .35 | .18 | .12 | AMP |
| | | | | 164.63 | 345.56 | 159.84 | 355.46 | 128.67 | 334.32 | 248.58 | 162.57 | PHASE |
| 368 | -4.74 | 18.85 | 612 | 7.95 | 3.28 | 1.85 | 1.88 | .46 | .24 | .37 | .18 | AMP |
| | | | | 156.43 | 337.46 | 181.18 | 348.76 | 98.68 | 325.68 | 211.96 | 128.74 | PHASE |
| 369 | -5.26 | 11.83 | 612 | 7.89 | 3.59 | 1.21 | 1.93 | .59 | .86 | .48 | .22 | AMP |
| | | | | 153.51 | 348.78 | 287.48 | 1.64 | 184.92 | 332.38 | 236.85 | 135.82 | PHASE |
| 378 | -5.84 | 12.64 | 612 | 7.88 | 4.87 | 1.79 | 1.83 | .76 | .16 | .48 | .26 | AMP |
| | | | | 146.39 | 332.22 | 215.78 | 1.67 | 112.15 | 287.44 | 212.85 | 125.17 | PHASE |
| 371 | -6.18 | 13.12 | 611 | 7.82 | 4.11 | 1.99 | 1.93 | .96 | .38 | .46 | .27 | AMP |
| | | | | 141.94 | 331.89 | 224.85 | 18.48 | 121.68 | 289.92 | 221.25 | 131.44 | PHASE |
| 372 | -6.68 | 14.88 | 613 | 7.94 | 4.26 | 2.37 | 2.24 | 1.21 | .35 | .48 | .26 | AMP |
| | | | | 136.39 | 327.87 | 227.88 | 18.96 | 126.34 | 213.98 | 214.44 | 125.56 | PHASE |
| 373 | -7.17 | 14.39 | 612 | 7.96 | 3.98 | 2.98 | 2.66 | 1.56 | .52 | .42 | .29 | AMP |
| | | | | 125.24 | 328.37 | 228.74 | 4.24 | 115.86 | 194.54 | 282.85 | 185.88 | PHASE |

TABLE V.- Continued

(b) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 355 | 24.48 | 48.38 | 612 | 18.68 | 19.72 | 13.35 | 5.13 | 2.64 | .86 | .48 | .25 AMP |
| | | | | 138.62 | 338.88 | 78.98 | 355.86 | 182.87 | 327.48 | 232.18 | 222.39 PHASE |
| 356 | 26.81 | 41.38 | 611 | 28.83 | 28.24 | 13.86 | 4.78 | 2.73 | .76 | .51 | .21 AMP |
| | | | | 141.23 | 339.58 | 88.16 | 7.51 | 122.49 | 342.26 | 272.94 | 235.83 PHASE |
| 357 | 28.31 | 41.51 | 611 | 28.88 | 28.88 | 13.11 | 4.46 | 2.87 | .58 | .48 | .19 AMP |
| | | | | 139.44 | 333.14 | 69.84 | 1.44 | 83.71 | 329.43 | 268.85 | 243.56 PHASE |
| 358 | 38.18 | 48.95 | 612 | 21.45 | 19.26 | 12.97 | 4.88 | 1.59 | .46 | .38 | .38 AMP |
| | | | | 148.46 | 336.58 | 72.19 | 18.31 | 88.88 | 338.26 | 277.82 | 291.87 PHASE |
| 359 | 32.29 | 38.97 | 612 | 21.52 | 18.39 | 12.23 | 3.35 | .87 | .39 | .42 | .35 AMP |
| | | | | 137.91 | 335.62 | 78.25 | 6.85 | 76.32 | 283.17 | 269.11 | 295.78 PHASE |
| 368 | 25.73 | 36.98 | 612 | 17.88 | 18.18 | 12.21 | 4.56 | 2.48 | .55 | .52 | .33 AMP |
| | | | | 143.93 | 342.25 | 88.73 | 11.87 | 137.67 | 5.29 | 257.81 | 188.51 PHASE |
| 361 | 28.18 | 36.37 | 612 | 18.47 | 18.29 | 11.95 | 4.88 | 2.46 | .29 | .52 | .27 AMP |
| | | | | 143.49 | 343.82 | 88.68 | 9.23 | 124.94 | 13.29 | 259.47 | 282.85 PHASE |
| 362 | 38.26 | 36.31 | 613 | 18.88 | 18.45 | 11.72 | 3.93 | 2.78 | .21 | .41 | .37 AMP |
| | | | | 139.99 | 339.82 | 71.65 | 359.15 | 187.53 | 28.12 | 248.65 | 199.86 PHASE |
| 363 | 32.47 | 36.38 | 612 | 19.49 | 18.33 | 11.84 | 3.82 | 3.36 | .89 | .35 | .35 AMP |
| | | | | 135.11 | 331.11 | 68.88 | 345.61 | 98.24 | 42.55 | 223.77 | 163.96 PHASE |
| 364 | 33.64 | 36.59 | 612 | 19.76 | 18.12 | 11.87 | 3.51 | 3.38 | .22 | .38 | .34 AMP |
| | | | | 148.14 | 343.15 | 78.66 | 9.65 | 124.94 | 214.28 | 255.78 | 198.93 PHASE |
| 365 | 34.65 | 36.93 | 613 | 18.88 | 18.15 | 11.85 | 3.28 | 3.48 | .29 | .31 | .25 AMP |
| | | | | 134.76 | 335.61 | 65.37 | 358.81 | 185.51 | 198.41 | 238.26 | 154.58 PHASE |
| 366 | 35.76 | 36.53 | 612 | 28.11 | 17.78 | 11.46 | 2.89 | 3.47 | .41 | .38 | .27 AMP |
| | | | | 132.46 | 332.88 | 64.86 | 347.69 | 182.85 | 183.35 | 217.19 | 133.55 PHASE |
| 367 | 28.89 | 31.88 | 612 | 15.79 | 16.83 | 18.84 | 3.89 | 2.58 | .39 | .42 | .29 AMP |
| | | | | 144.87 | 347.96 | 81.83 | 3.78 | 185.77 | 332.93 | 272.88 | 176.73 PHASE |
| 368 | 38.31 | 31.99 | 612 | 16.34 | 16.35 | 18.84 | 3.71 | 2.97 | .26 | .42 | .23 AMP |
| | | | | 141.44 | 344.18 | 73.22 | 349.57 | 91.63 | 318.88 | 259.21 | 163.33 PHASE |
| 369 | 32.64 | 32.44 | 612 | 16.83 | 16.68 | 18.81 | 3.59 | 3.11 | .21 | .39 | .16 AMP |
| | | | | 143.61 | 349.85 | 88.17 | 356.24 | 184.83 | 311.26 | 278.11 | 166.63 PHASE |
| 378 | 35.83 | 32.96 | 612 | 17.22 | 16.88 | 18.88 | 3.59 | 3.22 | .22 | .31 | .18 AMP |
| | | | | 148.67 | 346.29 | 75.57 | 358.68 | 94.51 | 265.22 | 262.86 | 144.96 PHASE |
| 371 | 36.38 | 32.47 | 611 | 17.43 | 16.81 | 18.68 | 3.35 | 3.13 | .35 | .27 | .24 AMP |
| | | | | 148.12 | 346.14 | 75.88 | 349.76 | 96.28 | 258.44 | 258.81 | 121.18 PHASE |
| 372 | 37.51 | 33.15 | 613 | 17.98 | 17.28 | 18.69 | 3.48 | 3.21 | .38 | .19 | .24 AMP |
| | | | | 139.88 | 344.55 | 72.98 | 346.86 | 94.98 | 246.74 | 244.89 | 117.91 PHASE |
| 373 | 38.63 | 33.42 | 612 | 18.32 | 17.28 | 18.53 | 3.41 | 3.26 | .45 | .13 | .31 AMP |
| | | | | 135.78 | 338.47 | 66.16 | 334.46 | 84.37 | 238.23 | 229.81 | 187.98 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 355 | 44.16 | 55.29 | 612 | 12.95 | 9.88 | 4.14 | 2.29 | 16.67 | 17.48 | 8.95 | 1.54 AMP |
| | | | | 284.87 | 135.68 | 347.78 | 211.87 | 282.64 | 228.54 | 132.95 | 38.34 PHASE |
| 356 | 42.82 | 58.15 | 611 | 14.22 | 12.72 | 7.88 | 4.52 | 15.82 | 13.86 | 9.68 | 1.94 AMP |
| | | | | 296.79 | 157.57 | 348.46 | 179.14 | 389.86 | 237.11 | 155.14 | 62.84 PHASE |
| 357 | 38.98 | 69.62 | 611 | 23.94 | 21.88 | 14.59 | 6.75 | 13.56 | 16.66 | 18.88 | 1.83 AMP |
| | | | | 389.57 | 164.34 | 321.56 | 148.21 | 287.96 | 175.19 | 136.41 | 323.44 PHASE |
| 358 | 36.29 | 82.68 | 612 | 34.21 | 28.71 | 19.32 | 7.81 | 12.44 | 22.82 | 8.84 | 1.48 AMP |
| | | | | 329.62 | 177.12 | 322.28 | 139.89 | 311.68 | 187.83 | 163.93 | 7.85 PHASE |
| 359 | 33.45 | 91.36 | 612 | 45.84 | 32.61 | 23.64 | 7.81 | 11.36 | 19.87 | 4.31 | 2.28 AMP |
| | | | | 338.38 | 181.76 | 311.48 | 112.53 | 388.87 | 196.85 | 169.96 | 358.16 PHASE |
| 368 | 48.96 | 49.87 | 612 | 11.45 | 12.18 | 6.27 | 1.21 | 18.85 | 13.11 | 6.19 | 1.88 AMP |
| | | | | 293.41 | 147.24 | 325.71 | 312.55 | 387.57 | 236.15 | 162.77 | 116.19 PHASE |
| 361 | 48.74 | 58.21 | 612 | 14.76 | 16.98 | 18.56 | .63 | 9.53 | 15.84 | 6.57 | .96 AMP |
| | | | | 382.48 | 168.71 | 328.93 | 178.74 | 298.43 | 218.21 | 156.39 | 74.94 PHASE |
| 362 | 48.22 | 61.18 | 613 | 19.63 | 22.62 | 15.88 | 2.55 | 18.29 | 16.86 | 9.42 | .76 AMP |
| | | | | 315.88 | 169.92 | 314.89 | 139.45 | 282.11 | 192.85 | 136.13 | 322.42 PHASE |
| 363 | 39.83 | 76.86 | 612 | 27.12 | 28.52 | 19.85 | 4.38 | 11.33 | 21.88 | 11.13 | 1.55 AMP |
| | | | | 324.98 | 172.59 | 388.82 | 117.75 | 262.95 | 169.48 | 118.39 | 291.14 PHASE |
| 364 | 38.89 | 83.72 | 612 | 34.84 | 31.36 | 22.81 | 5.31 | 18.78 | 28.84 | 18.58 | 2.32 AMP |
| | | | | 339.82 | 188.94 | 315.67 | 132.56 | 299.94 | 286.42 | 161.35 | 342.48 PHASE |
| 365 | 37.36 | 92.85 | 613 | 48.83 | 34.28 | 26.41 | 6.83 | 11.18 | 21.57 | 18.14 | 2.41 AMP |
| | | | | 348.81 | 182.45 | 381.88 | 113.28 | 275.87 | 185.52 | 139.73 | 382.99 PHASE |
| 366 | 36.12 | 188.36 | 612 | 46.51 | 36.82 | 29.49 | 8.69 | 11.81 | 17.75 | 9.13 | 2.66 AMP |
| | | | | 344.22 | 183.25 | 296.42 | 99.46 | 267.33 | 181.86 | 132.93 | 284.14 PHASE |
| 367 | 39.68 | 48.32 | 612 | 7.19 | 13.88 | 7.58 | 2.51 | 8.78 | 19.83 | 2.68 | 1.88 AMP |
| | | | | 286.61 | 168.21 | 317.17 | 319.69 | 318.32 | 249.13 | 199.81 | 187.84 PHASE |
| 368 | 48.36 | 55.53 | 612 | 9.82 | 17.74 | 11.43 | 2.68 | 8.28 | 24.92 | 4.23 | 1.56 AMP |
| | | | | 294.91 | 178.41 | 388.14 | 381.54 | 274.65 | 223.51 | 163.32 | 83.92 PHASE |
| 369 | 41.27 | 64.37 | 612 | 15.59 | 22.59 | 14.72 | 2.19 | 8.39 | 25.71 | 6.42 | 1.81 AMP |
| | | | | 323.16 | 186.83 | 311.54 | 328.35 | 275.87 | 239.58 | 168.82 | 83.18 PHASE |
| 378 | 41.73 | 74.51 | 612 | 23.81 | 27.73 | 18.86 | 1.71 | 18.46 | 26.98 | 8.45 | 1.11 AMP |
| | | | | 331.82 | 191.86 | 381.24 | 349.84 | 263.48 | 231.88 | 155.18 | 62.69 PHASE |
| 371 | 41.62 | 82.64 | 611 | 29.22 | 38.18 | 21.53 | 1.91 | 11.67 | 26.29 | 8.54 | .93 AMP |
| | | | | 339.45 | 194.37 | 388.53 | 37.98 | 268.97 | 235.34 | 147.72 | 43.96 PHASE |
| 372 | 41.65 | 94.37 | 613 | 37.31 | 33.91 | 25.28 | 1.94 | 11.82 | 25.67 | 9.96 | .73 AMP |
| | | | | 343.86 | 196.11 | 381.39 | 78.98 | 268.83 | 229.39 | 144.44 | 349.46 PHASE |
| 373 | 48.72 | 182.88 | 612 | 45.49 | 36.41 | 28.67 | 3.76 | 12.21 | 22.95 | 9.92 | .92 AMP |
| | | | | 348.12 | 193.35 | 293.54 | 92.95 | 244.38 | 214.99 | 138.89 | 287.87 PHASE |

TABLE V.- Continued

(b) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|--------------|
| RUN NO | | 38 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 355 | -3.41 | 8.83 | 612 | 6.89 151.41 | 2.19 281.69 | 1.76 122.84 | 1.83 348.89 | .38 3.85 | .63 267.87 | .83 114.71 | .19 88.85 | AMP PHASE |
| 356 | -4.83 | 8.61 | 611 | 6.17 149.65 | 2.41 296.55 | 1.78 133.35 | 1.19 347.48 | .28 68.51 | .56 278.49 | .82 147.28 | .28 185.84 | AMP PHASE |
| 357 | -5.88 | 8.81 | 611 | 6.88 135.37 | 2.55 291.29 | 2.12 139.58 | 1.32 336.82 | .31 52.38 | .46 238.78 | .15 119.62 | .11 119.78 | AMP PHASE |
| 358 | -6.21 | 9.65 | 612 | 6.85 124.26 | 2.84 294.38 | 2.39 162.75 | 1.84 336.83 | .58 58.89 | .29 231.95 | .36 128.43 | .18 162.35 | AMP PHASE |
| 359 | -7.45 | 18.28 | 612 | 6.21 188.74 | 1.35 291.43 | 2.35 184.65 | 2.18 331.89 | .93 52.43 | .27 158.51 | .31 134.22 | .18 99.66 | AMP PHASE |
| 368 | -4.38 | 7.56 | 612 | 6.54 157.85 | 1.46 387.67 | 1.55 128.44 | 1.38 329.83 | .11 18.83 | .25 262.86 | .12 58.42 | .09 83.56 | AMP PHASE |
| 361 | -4.93 | 8.13 | 612 | 6.55 158.74 | 1.91 316.38 | 1.33 134.82 | 1.36 326.98 | .89 65.42 | .29 248.75 | .11 73.22 | .18 38.81 | AMP PHASE |
| 362 | -5.64 | 8.88 | 613 | 6.58 141.38 | 2.38 312.41 | 1.31 143.46 | 1.45 318.49 | .26 39.83 | .14 281.24 | .09 72.16 | .89 347.97 | AMP PHASE |
| 363 | -6.47 | 9.68 | 612 | 6.55 128.24 | 2.49 381.38 | 1.65 158.32 | 1.61 314.15 | .56 42.68 | .18 165.36 | .17 56.58 | .11 351.94 | AMP PHASE |
| 364 | -7.84 | 18.21 | 612 | 6.58 126.87 | 2.29 313.49 | 1.89 188.63 | 1.91 342.27 | .81 82.36 | .19 197.17 | .12 86.54 | .11 45.33 | AMP PHASE |
| 365 | -7.67 | 18.71 | 613 | 6.64 113.98 | 2.85 388.74 | 2.28 187.75 | 2.29 328.48 | .13 67.85 | .21 159.77 | .18 67.49 | .18 359.85 | AMP PHASE |
| 366 | -8.38 | 18.69 | 612 | 6.88 183.49 | 1.54 296.88 | 2.55 199.66 | 2.39 327.71 | .19 61.41 | .23 151.38 | .82 351.94 | .88 357.58 | AMP PHASE |
| 367 | -5.19 | 7.76 | 612 | 6.84 156.86 | 1.84 339.89 | .84 164.78 | 1.83 324.69 | .12 48.39 | .24 271.18 | .85 268.78 | .13 91.13 | AMP PHASE |
| 368 | -5.68 | 8.68 | 612 | 6.74 148.86 | 2.28 329.68 | 1.15 175.88 | 1.25 318.93 | .22 3.69 | .13 249.37 | .16 164.34 | .13 55.63 | AMP PHASE |
| 369 | -6.24 | 9.36 | 612 | 6.78 144.58 | 2.64 331.35 | 1.36 193.12 | 1.36 331.54 | .31 29.94 | .87 157.43 | .17 197.18 | .15 68.71 | AMP PHASE |
| 378 | -6.81 | 18.86 | 612 | 6.67 136.92 | 3.87 322.17 | 1.88 195.18 | 1.25 332.21 | .38 53.38 | .28 138.94 | .19 166.46 | .18 57.58 | AMP PHASE |
| 371 | -7.89 | 18.43 | 611 | 6.62 132.83 | 3.14 321.27 | 2.86 288.19 | 1.34 342.74 | .55 71.49 | .28 146.31 | .16 191.55 | .28 64.78 | AMP PHASE |
| 372 | -7.54 | 11.82 | 613 | 6.74 126.38 | 3.27 317.98 | 2.41 288.63 | 1.61 342.76 | .76 79.23 | .33 152.89 | .16 188.71 | .21 68.45 | AMP PHASE |
| 373 | -8.82 | 11.66 | 612 | 6.85 115.57 | 3.88 318.23 | 2.82 281.71 | 2.82 336.77 | 1.89 78.78 | .48 143.22 | .13 284.21 | .24 46.74 | AMP PHASE |

TABLE V.- Continued

(b) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 355 | 7.58 | 58.28 | 612 | 24.91 | 26.24 | 13.96 | 2.71 | 1.57 | 1.48 | 2.63 | .84 AMP |
| 356 | 9.46 | 51.68 | 611 | 137.29 | 329.89 | 62.29 | 345.49 | 267.68 | 116.92 | 32.98 | 265.18 PHASE |
| 357 | 12.88 | 51.28 | 611 | 26.71 | 26.72 | 13.68 | 2.54 | 1.64 | 1.54 | 2.83 | .66 AMP |
| 358 | 14.22 | 51.87 | 612 | 139.79 | 337.63 | 71.19 | 357.45 | 289.59 | 136.42 | 68.42 | 295.71 PHASE |
| 359 | 16.78 | 58.12 | 612 | 28.82 | 25.81 | 14.15 | 2.27 | 1.25 | 1.51 | 2.29 | .61 AMP |
| 360 | 9.73 | 47.98 | 612 | 137.32 | 338.74 | 59.84 | 345.61 | 288.79 | 184.74 | 51.88 | 331.39 PHASE |
| 361 | 12.87 | 47.28 | 612 | 29.22 | 24.74 | 14.51 | 1.81 | 1.84 | 1.64 | 2.29 | 1.88 AMP |
| 362 | 14.33 | 48.32 | 613 | 138.32 | 333.86 | 63.83 | 352.48 | 294.55 | 112.81 | 54.38 | 345.34 PHASE |
| 363 | 16.88 | 48.38 | 612 | 29.83 | 23.59 | 13.96 | 1.45 | .94 | 1.54 | 2.45 | 1.46 AMP |
| 364 | 18.85 | 48.18 | 612 | 136.38 | 331.53 | 58.41 | 356.84 | 294.36 | 181.46 | 48.51 | 352.92 PHASE |
| 365 | 19.12 | 48.43 | 613 | 24.47 | 24.55 | 13.86 | 2.42 | 1.46 | .75 | 1.73 | .75 AMP |
| 366 | 28.42 | 48.29 | 612 | 148.71 | 339.92 | 72.42 | 353.28 | 298.32 | 158.71 | 46.95 | 247.72 PHASE |
| 367 | 12.91 | 41.41 | 612 | 25.48 | 24.45 | 12.74 | 2.26 | 1.46 | .69 | 1.88 | .61 AMP |
| 368 | 15.21 | 41.68 | 612 | 139.83 | 348.86 | 72.17 | 351.45 | 292.88 | 152.52 | 42.66 | 251.48 PHASE |
| 369 | 17.55 | 42.68 | 612 | 26.48 | 24.48 | 12.73 | 2.23 | 1.58 | .76 | 1.63 | .55 AMP |
| 370 | 28.88 | 42.54 | 612 | 136.71 | 335.72 | 63.89 | 338.68 | 287.71 | 128.54 | 23.55 | 241.52 PHASE |
| 371 | 21.55 | 43.89 | 611 | 27.38 | 24.25 | 13.35 | 2.21 | 1.73 | .88 | 1.64 | .37 AMP |
| 372 | 22.82 | 44.16 | 613 | 122.48 | 327.53 | 52.24 | 316.48 | 275.76 | 111.19 | 355.77 | 284.71 PHASE |
| 373 | 23.98 | 44.88 | 612 | 27.86 | 23.97 | 13.51 | 2.84 | 1.71 | .89 | 1.71 | .26 AMP |
| | | | | 137.99 | 338.87 | 69.56 | 338.33 | 389.39 | 158.59 | 34.79 | 268.48 PHASE |
| | | | | 28.43 | 23.92 | 13.78 | 1.92 | 1.73 | .97 | 1.78 | .16 AMP |
| | | | | 132.98 | 328.93 | 56.84 | 317.82 | 291.88 | 123.96 | .34 | 247.86 PHASE |
| | | | | 28.78 | 23.29 | 13.51 | 1.67 | 1.83 | .95 | 1.81 | .31 AMP |
| | | | | 131.22 | 326.78 | 54.66 | 388.79 | 289.81 | 111.37 | 1.44 | 257.78 PHASE |
| | | | | 22.22 | 21.34 | 11.85 | 1.51 | 1.12 | 1.76 | .64 | .64 AMP |
| | | | | 148.53 | 343.94 | 73.82 | 341.98 | 288.72 | 188.86 | 29.55 | 284.65 PHASE |
| | | | | 22.98 | 21.64 | 12.22 | 1.69 | 1.54 | 1.89 | 1.74 | .53 AMP |
| | | | | 137.43 | 339.86 | 65.99 | 325.27 | 277.81 | 164.87 | 12.82 | 178.83 PHASE |
| | | | | 23.77 | 21.89 | 12.52 | 1.57 | 1.68 | .97 | 1.83 | .49 AMP |
| | | | | 139.88 | 345.24 | 72.15 | 329.67 | 293.48 | 178.63 | 27.92 | 194.54 PHASE |
| | | | | 24.23 | 21.97 | 13.18 | 1.53 | 1.57 | .85 | 1.77 | .54 AMP |
| | | | | 137.58 | 341.47 | 67.13 | 322.89 | 289.74 | 171.18 | 14.88 | 159.42 PHASE |
| | | | | 24.51 | 21.81 | 13.89 | 1.45 | 1.56 | 1.73 | 1.73 | .56 AMP |
| | | | | 137.43 | 348.93 | 66.67 | 317.88 | 298.87 | 171.34 | 16.88 | 141.38 PHASE |
| | | | | 25.25 | 22.29 | 13.51 | 1.43 | 1.61 | .76 | 1.78 | .37 AMP |
| | | | | 136.85 | 339.21 | 65.83 | 311.15 | 298.86 | 169.83 | 16.26 | 124.15 PHASE |
| | | | | 26.81 | 22.36 | 13.67 | 1.32 | 1.75 | .61 | 2.84 | .44 AMP |
| | | | | 134.82 | 332.82 | 57.78 | 299.71 | 288.78 | 148.82 | 3.78 | 88.33 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 355 | 49.34 | 68.83 | 612 | 13.27 | 7.75 | 5.69 | 3.26 | 28.86 | 28.15 | 18.48 | 1.15 AMP |
| 356 | 47.69 | 62.28 | 611 | 284.79 | 131.88 | 38.85 | 232.79 | 281.99 | 238.44 | 134.15 | 66.94 PHASE |
| 357 | 45.36 | 78.27 | 611 | 14.41 | 18.22 | 8.43 | 4.25 | 18.61 | 14.87 | 11.64 | 1.74 AMP |
| 358 | 43.41 | 76.69 | 612 | 296.84 | 157.66 | 18.75 | 195.38 | 387.45 | 239.76 | 157.41 | 81.28 PHASE |
| 359 | 48.98 | 85.58 | 612 | 21.96 | 17.65 | 13.28 | 5.74 | 15.75 | 18.84 | 14.24 | .89 AMP |
| 360 | 47.55 | 58.82 | 612 | 386.89 | 166.98 | 345.73 | 152.38 | 285.16 | 175.37 | 141.86 | 334.51 PHASE |
| 361 | 47.12 | 57.88 | 612 | 38.88 | 23.66 | 17.65 | 6.15 | 13.98 | 24.51 | 11.37 | 2.32 AMP |
| 362 | 46.45 | 65.69 | 613 | 325.56 | 179.57 | 342.65 | 135.67 | 387.41 | 187.89 | 171.77 | 39.89 PHASE |
| 363 | 45.61 | 74.62 | 612 | 39.32 | 27.83 | 21.65 | 8.85 | 12.83 | 28.91 | 5.68 | 3.37 AMP |
| 364 | 44.73 | 75.76 | 612 | 334.76 | 182.88 | 328.28 | 181.69 | 382.66 | 198.22 | 182.59 | 25.86 PHASE |
| 365 | 43.86 | 84.65 | 613 | 11.51 | 9.74 | 5.89 | 2.13 | 12.41 | 15.58 | 7.27 | 1.75 AMP |
| 366 | 42.84 | 94.34 | 612 | 295.36 | 145.66 | 7.24 | 383.18 | 387.63 | 238.23 | 171.72 | 148.11 PHASE |
| 367 | 46.82 | 52.66 | 612 | 14.38 | 13.45 | 9.82 | .71 | 11.52 | 18.43 | 7.98 | 1.28 AMP |
| 368 | 46.41 | 57.57 | 612 | 381.11 | 162.55 | 358.85 | 276.71 | 298.28 | 228.75 | 165.77 | 113.77 PHASE |
| 369 | 46.97 | 65.85 | 612 | 18.21 | 18.23 | 13.48 | 1.56 | 12.28 | 19.37 | 11.73 | .25 AMP |
| 370 | 47.11 | 76.27 | 612 | 311.78 | 172.96 | 338.91 | 137.98 | 288.75 | 194.86 | 143.68 | 345.38 PHASE |
| 371 | 46.88 | 76.24 | 611 | 24.82 | 23.37 | 17.68 | 3.45 | 13.24 | 24.21 | 14.18 | 1.18 AMP |
| 372 | 46.57 | 86.58 | 613 | 319.88 | 175.68 | 321.84 | 111.83 | 259.82 | 171.17 | 125.58 | 321.81 PHASE |
| 373 | 46.84 | 94.84 | 612 | 29.53 | 25.95 | 28.29 | 4.72 | 12.48 | 24.15 | 13.15 | 2.82 AMP |
| | | | | 334.21 | 191.38 | 335.72 | 123.17 | 293.66 | 288.44 | 168.28 | 13.11 PHASE |
| | | | | 34.88 | 28.89 | 23.93 | 6.64 | 12.98 | 25.89 | 12.68 | 2.11 AMP |
| | | | | 335.84 | 184.38 | 319.12 | 183.19 | 267.35 | 188.16 | 147.53 | 339.61 PHASE |
| | | | | 48.34 | 31.37 | 27.27 | 9.48 | 12.99 | 28.39 | 11.36 | 2.87 AMP |
| | | | | 348.17 | 184.11 | 312.79 | 98.49 | 258.17 | 184.28 | 148.65 | 319.35 PHASE |
| | | | | 18.41 | 18.41 | 13.78 | 1.78 | 18.48 | 24.87 | 3.19 | 2.48 AMP |
| | | | | 292.89 | 178.24 | 357.11 | 321.88 | 389.42 | 251.18 | 226.82 | 126.32 PHASE |
| | | | | 9.68 | 14.58 | 9.58 | 3.88 | 9.76 | 38.15 | 4.68 | 2.69 AMP |
| | | | | 296.58 | 173.98 | 338.82 | 388.23 | 274.34 | 225.95 | 182.15 | 98.43 PHASE |
| | | | | 14.34 | 18.59 | 12.27 | 3.34 | 9.74 | 31.16 | 7.27 | 1.99 AMP |
| | | | | 318.97 | 189.32 | 337.83 | 331.88 | 274.65 | 242.18 | 178.17 | 188.84 PHASE |
| | | | | 28.22 | 22.89 | 15.53 | 3.82 | 11.82 | 32.68 | 9.31 | 2.33 AMP |
| | | | | 194.82 | 125.51 | 348.98 | 261.91 | 233.78 | 162.66 | 92.48 | 92.48 PHASE |
| | | | | 24.81 | 24.96 | 18.13 | 2.92 | 13.17 | 31.94 | 18.87 | 2.81 AMP |
| | | | | 333.62 | 197.89 | 322.63 | 17.53 | 258.72 | 238.38 | 152.91 | 86.72 PHASE |
| | | | | 31.28 | 28.82 | 21.81 | 2.48 | 13.35 | 31.33 | 11.88 | 1.18 AMP |
| | | | | 338.68 | 198.71 | 321.62 | 43.66 | 257.27 | 232.67 | 148.59 | 78.65 PHASE |
| | | | | 37.77 | 38.46 | 25.35 | 3.89 | 14.83 | 28.28 | 11.85 | .45 AMP |
| | | | | 342.84 | 195.37 | 311.78 | 71.59 | 239.15 | 219.44 | 134.67 | 48.53 PHASE |

TABLE V.- Continued

(b) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 38 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 355 | -6.35 | 6.57 | 612 | 5.26 | 1.69 | 1.17 | .62 | .39 | .42 | .25 | .06 AMP |
| | | | | 153.01 | 299.87 | 132.41 | 14.89 | 12.23 | 277.60 | 52.30 | 94.72 PHASE |
| 356 | -6.78 | 7.09 | 611 | 5.39 | 1.95 | 1.19 | .71 | .23 | .39 | .27 | .10 AMP |
| | | | | 152.25 | 313.72 | 143.92 | 19.76 | 46.34 | 284.81 | 56.84 | 119.72 PHASE |
| 357 | -7.36 | 7.18 | 611 | 5.47 | 2.24 | 1.39 | .78 | .30 | .39 | .24 | .06 AMP |
| | | | | 142.46 | 309.97 | 145.96 | 8.78 | 35.31 | 240.22 | 50.26 | 169.04 PHASE |
| 358 | -8.04 | 7.78 | 612 | 5.47 | 2.17 | 1.60 | 1.13 | .52 | .32 | .36 | .18 AMP |
| | | | | 138.20 | 318.24 | 166.04 | .00 | 62.18 | 237.99 | 99.66 | 247.03 PHASE |
| 359 | -8.72 | 8.33 | 612 | 5.41 | 2.00 | 1.63 | 1.30 | .83 | .29 | .32 | .14 AMP |
| | | | | 129.81 | 323.26 | 182.68 | 352.50 | 68.31 | 186.71 | 107.32 | 257.95 PHASE |
| 360 | -7.28 | 6.32 | 612 | 5.53 | 1.21 | 1.10 | .76 | .25 | .22 | .26 | .11 AMP |
| | | | | 158.40 | 325.31 | 129.34 | 359.34 | 12.68 | 276.93 | 79.10 | 111.88 PHASE |
| 361 | -7.65 | 6.65 | 612 | 5.58 | 1.57 | .90 | .80 | .22 | .26 | .24 | .09 AMP |
| | | | | 152.68 | 331.64 | 142.59 | 355.07 | 6.60 | 260.78 | 79.88 | 77.91 PHASE |
| 362 | -8.06 | 7.00 | 613 | 5.64 | 1.97 | .92 | .87 | .40 | .20 | .24 | .05 AMP |
| | | | | 145.06 | 327.25 | 146.79 | 344.23 | 19.10 | 207.91 | 46.39 | 22.33 PHASE |
| 363 | -8.51 | 7.80 | 612 | 5.65 | 2.31 | 1.18 | .98 | .59 | .28 | .31 | .06 AMP |
| | | | | 135.55 | 317.88 | 156.04 | 337.61 | 25.02 | 181.14 | 29.51 | 57.96 PHASE |
| 364 | -8.02 | 8.18 | 612 | 5.65 | 2.36 | 1.33 | 1.17 | .76 | .30 | .32 | .09 AMP |
| | | | | 137.30 | 330.94 | 182.49 | 4.26 | 70.31 | 214.72 | 61.67 | 125.39 PHASE |
| 365 | -9.16 | 8.67 | 613 | 5.69 | 2.38 | 1.51 | 1.46 | .99 | .36 | .32 | .06 AMP |
| | | | | 120.18 | 321.67 | 178.38 | 348.06 | 60.00 | 181.60 | 28.30 | 86.57 PHASE |
| 366 | -9.54 | 8.77 | 612 | 5.70 | 2.24 | 1.64 | 1.57 | 1.11 | .42 | .37 | .10 AMP |
| | | | | 121.73 | 322.81 | 187.95 | 343.81 | 56.10 | 178.28 | 7.14 | 99.00 PHASE |
| 367 | -8.02 | 6.43 | 612 | 5.74 | 1.58 | .49 | .60 | .19 | .14 | .15 | .06 AMP |
| | | | | 158.15 | 355.33 | 171.00 | 350.20 | 11.11 | 280.68 | 45.68 | 61.62 PHASE |
| 368 | -8.32 | 7.02 | 612 | 5.69 | 1.89 | .60 | .74 | .34 | .05 | .07 | .07 AMP |
| | | | | 149.63 | 344.30 | 184.77 | 346.06 | 359.92 | 224.60 | 82.00 | 45.01 PHASE |
| 369 | -8.68 | 7.50 | 612 | 5.69 | 2.18 | .82 | .80 | .45 | .14 | .04 | .10 AMP |
| | | | | 146.63 | 344.38 | 201.61 | 359.00 | 25.52 | 152.56 | 37.59 | 65.58 PHASE |
| 370 | -9.04 | 8.02 | 612 | 5.68 | 2.51 | 1.19 | .73 | .47 | .23 | .06 | .14 AMP |
| | | | | 139.46 | 334.78 | 202.72 | 4.85 | 35.93 | 152.27 | 87.43 | 59.11 PHASE |
| 371 | -9.22 | 8.33 | 611 | 5.68 | 2.62 | 1.29 | .82 | .51 | .29 | .05 | .19 AMP |
| | | | | 135.71 | 333.44 | 205.48 | 15.00 | 52.36 | 159.00 | 4.64 | 68.05 PHASE |
| 372 | -9.51 | 8.75 | 613 | 5.80 | 2.82 | 1.51 | .98 | .62 | .34 | .10 | .21 AMP |
| | | | | 131.79 | 330.51 | 203.86 | 12.29 | 64.02 | 164.64 | 351.87 | 65.79 PHASE |
| 373 | -9.79 | 9.18 | 612 | 5.90 | 2.85 | 1.66 | 1.20 | .82 | .46 | .18 | .24 AMP |
| | | | | 124.58 | 323.66 | 201.85 | 3.12 | 63.03 | 153.09 | 318.25 | 46.35 PHASE |

TABLE V.- Continued

(b) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|--------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------|-------|
| RUN NO 38 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 355 | -11.06 | 46.13 | 612 | 25.02 | 21.38 | 8.25 | 7.41 | 3.78 | .41 | 3.05 | 1.44 | AMP |
| | | | | 137.95 | 327.94 | 28.86 | 186.11 | 253.35 | 345.96 | 208.23 | 105.28 | PHASE |
| 356 | -9.10 | 47.05 | 611 | 26.46 | 22.14 | 8.04 | 6.94 | 3.93 | .62 | 3.36 | 1.30 | AMP |
| | | | | 141.76 | 337.14 | 37.40 | 201.55 | 277.52 | 9.92 | 235.96 | 145.61 | PHASE |
| 357 | -6.05 | 46.53 | 611 | 27.34 | 21.26 | 8.26 | 6.25 | 3.68 | .10 | 2.45 | 1.51 | AMP |
| | | | | 139.81 | 329.19 | 35.61 | 193.75 | 248.62 | 307.63 | 225.27 | 154.23 | PHASE |
| 358 | -3.42 | 47.26 | 612 | 28.44 | 20.43 | 8.27 | 5.74 | 3.51 | .14 | 2.34 | 2.07 | AMP |
| | | | | 141.30 | 332.13 | 43.25 | 203.26 | 245.07 | 277.11 | 229.34 | 169.70 | PHASE |
| 359 | -1.37 | 45.90 | 612 | 29.12 | 19.39 | 7.74 | 4.81 | 2.60 | .22 | 2.44 | 2.77 | AMP |
| | | | | 140.45 | 329.74 | 44.67 | 201.18 | 249.52 | 349.79 | 221.09 | 172.37 | PHASE |
| 360 | -9.60 | 46.41 | 612 | 25.31 | 21.54 | 7.47 | 6.51 | 3.48 | .52 | 2.27 | .94 | AMP |
| | | | | 141.52 | 339.73 | 34.69 | 198.34 | 301.34 | 313.93 | 222.62 | 101.51 | PHASE |
| 361 | -6.98 | 45.67 | 612 | 25.73 | 21.22 | 7.25 | 5.91 | 3.79 | .37 | 2.07 | .84 | AMP |
| | | | | 141.86 | 340.76 | 37.63 | 197.65 | 291.06 | 348.08 | 217.13 | 111.73 | PHASE |
| 362 | -4.64 | 45.23 | 613 | 26.59 | 21.15 | 7.22 | 5.44 | 4.57 | .42 | 2.08 | .08 | AMP |
| | | | | 139.90 | 336.16 | 31.75 | 191.97 | 274.66 | 322.82 | 198.02 | 99.70 | PHASE |
| 363 | -1.91 | 46.43 | 612 | 27.57 | 21.04 | 7.67 | 5.21 | 5.75 | .40 | 1.95 | .69 | AMP |
| | | | | 136.59 | 328.44 | 25.44 | 182.67 | 256.26 | 314.90 | 160.47 | 86.76 | PHASE |
| 364 | -1.37 | 47.18 | 612 | 28.13 | 20.01 | 7.72 | 4.77 | 5.78 | .73 | 1.90 | .82 | AMP |
| | | | | 142.50 | 339.50 | 46.64 | 209.00 | 290.34 | 9.15 | 204.11 | 151.48 | PHASE |
| 365 | .07 | 48.13 | 613 | 28.95 | 20.75 | 7.84 | 4.30 | 6.04 | 1.00 | 1.91 | .00 | AMP |
| | | | | 137.97 | 329.70 | 34.85 | 192.69 | 272.73 | 349.14 | 167.54 | 124.62 | PHASE |
| 366 | 2.37 | 48.10 | 612 | 29.42 | 20.26 | 7.56 | 3.87 | 6.24 | .93 | 1.93 | 1.01 | AMP |
| | | | | 136.68 | 327.04 | 35.27 | 192.99 | 269.30 | 349.11 | 167.15 | 112.63 | PHASE |
| 367 | -6.89 | 41.77 | 612 | 23.10 | 19.30 | 6.29 | 5.34 | 4.23 | .55 | 1.69 | .60 | AMP |
| | | | | 140.46 | 342.22 | 41.21 | 187.72 | 271.39 | 28.16 | 207.93 | 21.71 | PHASE |
| 368 | -4.66 | 42.00 | 612 | 23.67 | 19.45 | 6.74 | 5.03 | 4.91 | .60 | 1.73 | .45 | AMP |
| | | | | 138.62 | 330.36 | 36.05 | 175.97 | 257.60 | 12.98 | 190.17 | 354.20 | PHASE |
| 369 | -2.25 | 43.56 | 612 | 24.42 | 19.57 | 7.27 | 4.76 | 5.21 | .56 | 1.87 | .39 | AMP |
| | | | | 142.16 | 343.83 | 44.12 | 186.15 | 270.21 | 26.61 | 205.46 | 350.49 | PHASE |
| 370 | .49 | 44.43 | 612 | 24.96 | 19.61 | 7.96 | 4.29 | 5.51 | .71 | 1.79 | .54 | AMP |
| | | | | 140.60 | 340.04 | 42.00 | 178.56 | 261.45 | 22.77 | 192.51 | 316.14 | PHASE |
| 371 | 2.11 | 45.05 | 611 | 25.27 | 19.48 | 8.04 | 3.82 | 5.54 | .73 | 1.87 | .59 | AMP |
| | | | | 140.08 | 339.02 | 43.20 | 181.73 | 263.54 | 30.45 | 195.99 | 291.22 | PHASE |
| 372 | 3.41 | 46.62 | 613 | 25.15 | 19.97 | 8.46 | 3.74 | 5.57 | .84 | 1.94 | .53 | AMP |
| | | | | 140.60 | 337.14 | 43.20 | 179.11 | 262.65 | 28.73 | 196.14 | 271.20 | PHASE |
| 373 | 4.79 | 47.50 | 612 | 27.09 | 20.18 | 8.70 | 3.56 | 5.54 | .02 | 2.25 | .65 | AMP |
| | | | | 138.09 | 331.01 | 38.24 | 169.24 | 254.54 | 23.02 | 103.15 | 230.20 | PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 38 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 355 | 55.02 | 37.49 | 612 | 13.75 | 13.53 | 8.69 | 6.19 | 10.52 | 7.46 | 4.54 | 1.55 | AMP |
| | | | | 145.06 | 320.42 | 36.89 | 199.35 | 267.09 | 222.65 | 150.06 | 119.72 | PHASE |
| 356 | 55.03 | 39.55 | 611 | 14.18 | 13.29 | 9.40 | 6.21 | 10.02 | 5.26 | 5.05 | 1.45 | AMP |
| | | | | 140.77 | 334.01 | 39.54 | 204.16 | 291.50 | 234.11 | 173.00 | 142.64 | PHASE |
| 357 | 57.55 | 41.93 | 611 | 12.57 | 11.29 | 10.45 | 5.69 | 8.38 | 6.55 | 6.19 | 1.32 | AMP |
| | | | | 140.25 | 319.38 | 24.36 | 182.18 | 263.79 | 166.71 | 147.36 | 151.16 | PHASE |
| 358 | 59.27 | 39.09 | 612 | 10.74 | 10.00 | 11.44 | 4.75 | 6.92 | 9.23 | 5.64 | 1.91 | AMP |
| | | | | 145.95 | 313.44 | 23.66 | 177.03 | 277.00 | 179.47 | 177.70 | 128.00 | PHASE |
| 359 | 61.37 | 38.06 | 612 | 8.00 | 9.16 | 11.24 | 3.63 | 6.00 | 7.54 | 3.63 | 2.10 | AMP |
| | | | | 136.67 | 303.30 | 13.59 | 146.79 | 277.62 | 190.12 | 191.10 | 121.26 | PHASE |
| 360 | 56.41 | 34.07 | 612 | 14.02 | 12.96 | 7.97 | 4.54 | 7.66 | 6.17 | 3.93 | 1.52 | AMP |
| | | | | 146.54 | 340.69 | 37.66 | 215.34 | 298.97 | 233.79 | 187.64 | 137.00 | PHASE |
| 361 | 57.34 | 35.00 | 612 | 13.46 | 11.65 | 8.42 | 4.04 | 7.45 | 6.98 | 4.06 | 1.33 | AMP |
| | | | | 147.79 | 337.71 | 32.29 | 207.41 | 289.31 | 216.30 | 170.63 | 131.02 | PHASE |
| 362 | 58.50 | 38.51 | 613 | 12.65 | 10.71 | 9.46 | 3.76 | 8.19 | 7.15 | 5.68 | .93 | AMP |
| | | | | 145.21 | 325.77 | 18.87 | 189.98 | 271.42 | 189.60 | 150.03 | 116.00 | PHASE |
| 363 | 60.34 | 41.20 | 612 | 11.44 | 10.15 | 10.69 | 3.57 | 9.33 | 8.00 | 6.81 | .02 | AMP |
| | | | | 139.76 | 309.11 | 4.00 | 166.49 | 249.96 | 166.02 | 127.61 | 67.25 | PHASE |
| 364 | 61.99 | 39.60 | 612 | 10.30 | 10.00 | 11.22 | 3.19 | 8.97 | 8.75 | 6.45 | .95 | AMP |
| | | | | 142.04 | 315.29 | 19.52 | 179.39 | 203.23 | 203.59 | 169.22 | 100.77 | PHASE |
| 365 | 63.14 | 40.20 | 613 | 9.56 | 10.04 | 11.92 | 3.15 | 9.02 | 8.14 | 6.14 | .07 | AMP |
| | | | | 132.30 | 300.90 | 8.13 | 145.07 | 260.44 | 184.76 | 146.07 | 63.77 | PHASE |
| 366 | 64.07 | 39.94 | 612 | 8.51 | 9.77 | 12.03 | 3.20 | 9.17 | 7.19 | 5.45 | 1.17 | AMP |
| | | | | 123.73 | 294.07 | 355.06 | 119.03 | 254.03 | 101.71 | 139.54 | 66.44 | PHASE |
| 367 | 58.42 | 34.19 | 612 | 13.45 | 11.00 | 7.14 | 2.00 | 7.20 | 9.23 | 2.44 | 1.16 | AMP |
| | | | | 144.03 | 330.25 | 39.89 | 219.99 | 205.98 | 244.50 | 226.37 | 115.54 | PHASE |
| 368 | 59.03 | 34.78 | 612 | 13.14 | 10.07 | 8.04 | 2.50 | 7.63 | 11.47 | 2.90 | 1.36 | AMP |
| | | | | 142.69 | 330.21 | 25.00 | 211.11 | 259.00 | 220.22 | 190.22 | 95.26 | PHASE |
| 369 | 60.09 | 40.47 | 612 | 12.01 | 9.61 | 8.90 | 2.07 | 7.02 | 11.00 | 5.02 | .02 | AMP |
| | | | | 145.16 | 320.77 | 27.95 | 214.20 | 265.61 | 236.00 | 106.74 | 100.52 | PHASE |
| 370 | 61.78 | 45.73 | 612 | 10.61 | 9.45 | 9.03 | 1.38 | 8.06 | 12.49 | 4.79 | 1.10 | AMP |
| | | | | 142.40 | 316.62 | 10.07 | 193.75 | 253.04 | 228.06 | 166.73 | 05.32 | PHASE |
| 371 | 63.50 | 43.09 | 611 | 9.45 | 9.51 | 10.26 | 1.05 | 9.30 | 12.24 | 4.65 | .93 | AMP |
| | | | | 139.05 | 311.66 | 15.04 | 171.10 | 252.54 | 233.77 | 150.23 | 07.35 | PHASE |
| 372 | 65.04 | 43.60 | 613 | 8.53 | 9.92 | 11.39 | 1.44 | 9.37 | 12.07 | 5.37 | .63 | AMP |
| | | | | 133.63 | 305.66 | 10.60 | 154.16 | 251.00 | 220.51 | 152.62 | 96.31 | PHASE |
| 373 | 65.04 | 41.93 | 612 | 7.79 | 10.34 | 12.01 | 2.20 | 9.49 | 10.06 | 5.30 | .42 | AMP |
| | | | | 122.60 | 296.23 | 359.53 | 125.14 | 236.64 | 215.42 | 140.16 | 92.95 | PHASE |

TABLE V.- Concluded

(b) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|-------|--------|-------|
| RUN NO | | 38 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 355 | -4.57 | 4.63 | 612 | 3.81 | .28 | .66 | .48 | .52 | .52 | .45 | .33 | AMP |
| 356 | -4.76 | 5.88 | 611 | 155.99 | 278.82 | 288.71 | 68.86 | 355.28 | 235.81 | 68.55 | 336.91 | PHASE |
| 357 | -5.88 | 4.94 | 611 | 3.84 | .38 | .63 | .49 | .48 | .47 | .43 | .36 | AMP |
| 358 | -5.22 | 5.39 | 612 | 151.85 | 382.11 | 228.75 | 78.92 | 19.27 | 247.68 | 78.88 | 7.89 | PHASE |
| 359 | -5.43 | 5.49 | 612 | 2.97 | .54 | .66 | .51 | .55 | .43 | .37 | .22 | AMP |
| 360 | -4.96 | 4.46 | 612 | 138.76 | 295.78 | 289.11 | 67.64 | 358.69 | 289.89 | 42.91 | 339.21 | PHASE |
| 361 | -5.18 | 4.78 | 612 | 3.88 | .63 | .77 | .44 | .66 | .38 | .47 | .22 | AMP |
| 362 | -5.38 | 4.99 | 613 | 132.38 | 299.83 | 286.68 | 64.59 | 18.12 | 216.81 | 65.17 | 324.89 | PHASE |
| 363 | -5.45 | 5.24 | 612 | 3.87 | .74 | .82 | .32 | .73 | .29 | .41 | .38 | AMP |
| 364 | -5.59 | 5.45 | 612 | 123.37 | 383.29 | 211.83 | 56.25 | 18.18 | 188.78 | 62.93 | 328.83 | PHASE |
| 365 | -5.69 | 5.42 | 613 | 3.24 | .89 | .45 | .37 | .43 | .31 | .32 | .28 | AMP |
| 366 | -5.76 | 5.36 | 612 | 159.55 | 358.24 | 288.72 | 64.32 | 8.98 | 253.21 | 88.26 | 9.71 | PHASE |
| 367 | -5.32 | 4.65 | 612 | 3.23 | .29 | .58 | .34 | .45 | .34 | .29 | .19 | AMP |
| 368 | -5.43 | 5.81 | 612 | 158.45 | 344.16 | 224.51 | 62.31 | 4.35 | 239.51 | 76.22 | 355.79 | PHASE |
| 369 | -5.59 | 5.16 | 612 | 3.21 | .47 | .55 | .33 | .62 | .28 | .29 | .28 | AMP |
| 370 | -5.72 | 5.29 | 612 | 139.48 | 327.14 | 217.94 | 58.11 | 1.46 | 284.83 | 46.88 | 323.83 | PHASE |
| 371 | -5.79 | 5.16 | 611 | 3.28 | .68 | .75 | .36 | .79 | .32 | .38 | .18 | AMP |
| 372 | -5.89 | 5.34 | 613 | 126.48 | 386.16 | 288.95 | 43.86 | 352.81 | 182.21 | 22.84 | 383.28 | PHASE |
| 373 | -5.96 | 5.25 | 612 | 3.23 | .79 | .83 | .38 | .85 | .32 | .38 | .15 | AMP |
| 374 | -5.89 | 5.34 | 613 | 127.81 | 317.84 | 216.59 | 65.81 | 38.53 | 216.54 | 58.85 | 355.48 | PHASE |
| 375 | -5.76 | 5.36 | 612 | 3.38 | .88 | .91 | .39 | .94 | .33 | .38 | .16 | AMP |
| 376 | -5.32 | 4.65 | 612 | 117.78 | 386.31 | 281.89 | 38.62 | 16.91 | 183.14 | 27.31 | 321.91 | PHASE |
| 377 | -5.43 | 5.81 | 612 | 3.39 | .94 | .97 | .34 | 1.88 | .31 | .39 | .15 | AMP |
| 378 | -5.59 | 5.16 | 612 | 112.46 | 386.97 | 282.55 | 38.55 | 15.36 | 173.96 | 18.68 | 323.53 | PHASE |
| 379 | -5.72 | 5.29 | 612 | 3.45 | .53 | .53 | .28 | .37 | .27 | .26 | .22 | AMP |
| 380 | -5.89 | 5.34 | 613 | 157.21 | 21.25 | 237.85 | 58.92 | 2.44 | 248.48 | 79.83 | 358.66 | PHASE |
| 381 | -5.96 | 5.25 | 612 | 3.38 | .61 | .65 | .24 | .51 | .28 | .26 | .24 | AMP |
| 382 | -5.79 | 5.16 | 611 | 146.82 | 357.89 | 229.43 | 37.45 | 353.34 | 218.47 | 73.24 | 328.43 | PHASE |
| 383 | -5.43 | 5.81 | 612 | 3.34 | .72 | .74 | .24 | .63 | .16 | .23 | .26 | AMP |
| 384 | -5.59 | 5.16 | 612 | 139.89 | 343.44 | 235.53 | 51.39 | 14.24 | 288.84 | 84.25 | 358.16 | PHASE |
| 385 | -5.72 | 5.29 | 612 | 3.31 | .89 | .95 | .26 | .78 | .17 | .26 | .28 | AMP |
| 386 | -5.89 | 5.34 | 613 | 129.58 | 324.72 | 224.26 | 74.81 | 15.68 | 177.33 | 75.51 | 343.37 | PHASE |
| 387 | -5.96 | 5.25 | 612 | 3.32 | .97 | 1.88 | .32 | .74 | .18 | .22 | .29 | AMP |
| 388 | -5.79 | 5.16 | 611 | 123.79 | 321.11 | 221.18 | 78.86 | 23.37 | 171.18 | 69.86 | 352.76 | PHASE |
| 389 | -5.43 | 5.81 | 612 | 3.41 | 1.88 | 1.89 | .33 | .81 | .22 | .22 | .38 | AMP |
| 390 | -5.59 | 5.16 | 612 | 118.31 | 316.79 | 216.22 | 72.58 | 26.79 | 168.66 | 52.95 | 349.18 | PHASE |
| 391 | -5.76 | 5.36 | 612 | 3.51 | 1.16 | 1.14 | .32 | .91 | .27 | .18 | .33 | AMP |
| 392 | -5.96 | 5.25 | 612 | 118.44 | 389.76 | 287.96 | 52.81 | 21.25 | 142.22 | 15.61 | 332.68 | PHASE |

| PITCH LINK | | | | | | | | | | | | |
|------------|------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 38 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 355 | 3.17 | 18.72 | 612 | 5.31 | 3.29 | 1.91 | 1.75 | .59 | 1.83 | .65 | .33 | AMP |
| 356 | 3.81 | 12.96 | 611 | 337.88 | 96.85 | 267.57 | 161.53 | 254.18 | 128.46 | 6.23 | 323.39 | PHASE |
| 357 | 4.42 | 12.88 | 611 | 6.92 | 3.78 | 1.86 | 1.88 | .51 | .93 | .85 | .44 | AMP |
| 358 | 5.52 | 13.81 | 612 | 324.65 | 128.85 | 275.44 | 174.99 | 298.44 | 149.56 | 29.45 | 337.89 | PHASE |
| 359 | 6.62 | 14.87 | 612 | 6.74 | 4.12 | 1.53 | 1.78 | .58 | .61 | .81 | .31 | AMP |
| 360 | 4.68 | 11.77 | 612 | 388.36 | 118.18 | 288.71 | 175.14 | 289.41 | 114.88 | 15.13 | 385.55 | PHASE |
| 361 | 4.86 | 12.21 | 612 | 7.13 | 3.73 | .74 | 2.32 | 1.71 | .37 | 1.14 | .58 | AMP |
| 362 | 5.16 | 12.64 | 613 | 294.84 | 185.37 | 314.62 | 184.89 | 279.41 | 185.78 | 24.84 | 314.36 | PHASE |
| 363 | 5.88 | 14.62 | 612 | 7.89 | 3.84 | .55 | 2.83 | .89 | .35 | 1.89 | .73 | AMP |
| 364 | 6.18 | 14.81 | 612 | 278.86 | 94.13 | 49.92 | 188.41 | 266.73 | 8.73 | 25.95 | 385.38 | PHASE |
| 365 | 6.68 | 15.68 | 613 | 7.38 | 2.67 | 1.96 | 2.87 | .58 | .37 | .46 | .18 | AMP |
| 366 | 7.19 | 15.37 | 612 | 342.85 | 118.28 | 274.33 | 168.88 | 287.32 | 172.38 | 37.58 | 46.11 | PHASE |
| 367 | 5.71 | 18.86 | 612 | 6.91 | 3.85 | 1.41 | 2.14 | .59 | .41 | .55 | .12 | AMP |
| 368 | 5.77 | 11.53 | 612 | 331.76 | 128.55 | 272.85 | 165.22 | 312.41 | 153.43 | 23.22 | 329.41 | PHASE |
| 369 | 6.18 | 12.28 | 612 | 6.84 | 3.82 | 1.86 | 2.89 | .97 | .23 | .68 | .13 | AMP |
| 370 | 6.48 | 13.23 | 612 | 317.73 | 125.67 | 266.69 | 161.47 | 284.84 | 115.78 | 356.88 | 265.78 | PHASE |
| 371 | 6.59 | 13.47 | 611 | 7.26 | 4.14 | .41 | 2.37 | 1.45 | .22 | .88 | .14 | AMP |
| 372 | 6.89 | 14.97 | 613 | 383.32 | 115.89 | 285.61 | 158.65 | 269.91 | 83.26 | 337.77 | 238.68 | PHASE |
| 373 | 7.11 | 15.52 | 612 | 7.28 | 3.98 | .31 | 2.68 | 1.62 | .12 | .76 | .89 | AMP |
| 374 | 7.19 | 15.37 | 612 | 382.16 | 125.67 | 19.58 | 185.68 | 384.39 | 84.84 | 17.46 | 252.18 | PHASE |
| 375 | 7.79 | 14.37 | 613 | 7.59 | 3.74 | .78 | 3.88 | 1.92 | .18 | .85 | .15 | AMP |
| 376 | 7.93 | 14.43 | 612 | 289.74 | 112.38 | 51.66 | 171.76 | 285.64 | 48.33 | 358.58 | 213.19 | PHASE |
| 377 | 7.93 | 14.43 | 612 | 8.87 | 3.23 | 1.46 | 3.19 | 1.91 | .22 | .82 | .18 | AMP |
| 378 | 7.93 | 14.43 | 612 | 279.88 | 186.23 | 63.61 | 178.18 | 288.28 | 33.56 | 348.24 | 175.77 | PHASE |
| 379 | 7.93 | 14.43 | 612 | 7.54 | 2.69 | .81 | 1.75 | .52 | .46 | .62 | .89 | AMP |
| 380 | 7.93 | 14.43 | 612 | 342.28 | 131.24 | 263.95 | 161.82 | 278.11 | 168.57 | 31.19 | 358.19 | PHASE |
| 381 | 7.93 | 14.43 | 612 | 6.88 | 3.19 | .41 | 1.92 | .78 | .38 | .66 | .86 | AMP |
| 382 | 7.93 | 14.43 | 612 | 326.78 | 134.88 | 274.33 | 159.88 | 263.48 | 148.94 | 28.25 | 339.28 | PHASE |
| 383 | 7.93 | 14.43 | 612 | 6.63 | 3.76 | .16 | 2.17 | .95 | .19 | .73 | .21 | AMP |
| 384 | 7.93 | 14.43 | 612 | 321.98 | 139.35 | 334.58 | 178.87 | 273.55 | 89.61 | 21.87 | 326.72 | PHASE |
| 385 | 7.93 | 14.43 | 612 | 6.93 | 4.27 | .78 | 2.26 | 1.13 | .28 | .98 | .28 | AMP |
| 386 | 7.93 | 14.43 | 612 | 311.23 | 134.38 | 48.18 | 178.37 | 273.36 | 34.83 | 14.51 | 388.63 | PHASE |
| 387 | 7.93 | 14.43 | 612 | 7.81 | 4.32 | .98 | 2.31 | 1.23 | .43 | .89 | .17 | AMP |
| 388 | 7.93 | 14.43 | 612 | 386.44 | 134.37 | 51.28 | 175.98 | 279.76 | 21.94 | 15.32 | 1.85 | PHASE |
| 389 | 7.93 | 14.43 | 612 | 7.79 | 4.62 | 1.37 | 2.62 | 1.54 | .47 | .95 | .17 | AMP |
| 390 | 7.93 | 14.43 | 612 | 381.71 | 131.58 | 53.88 | 177.64 | 283.84 | 22.68 | 7.14 | 357.34 | PHASE |
| 391 | 7.93 | 14.43 | 612 | 7.93 | 4.43 | 1.94 | 3.88 | 1.82 | .64 | .91 | .21 | AMP |
| 392 | 7.93 | 14.43 | 612 | 292.48 | 123.88 | 56.35 | 178.93 | 275.65 | 1.79 | 346.98 | 342.97 | PHASE |

TABLE VI.- ROTOR PERFORMANCE AND BLADE LOADS DATA FOR
ACR BLADE WITH RECTANGULAR TIP AND 4° TABS

(a) $\mu = 0.20$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 168 | -1.2 | 2.8 | 2.1 | .05367 | .00088 | .00189 |
| 169 | -1.5 | 3.3 | 4.1 | .07184 | .00109 | .00237 |
| 170 | -2.2 | 4.2 | 6.1 | .08732 | .00054 | .00317 |
| 171 | -2.3 | 5.4 | 8.0 | .10218 | -.00019 | .00422 |
| 172 | -2.9 | 6.4 | 10.1 | .11556 | -.00129 | .00558 |
| 173 | -3.4 | 7.0 | 12.1 | .12696 | -.00151 | .00720 |
| 174 | -3.6 | 7.4 | 13.1 | .12887 | -.00148 | .00826 |
| 175 | -.2 | 2.3 | .1 | .03602 | .00116 | .00161 |
| 176 | .2 | 1.5 | -1.9 | .01860 | .00132 | .00143 |
| 177 | .3 | 1.6 | -2.1 | .03225 | .00519 | .00102 |
| 178 | -.3 | 2.1 | .1 | .05191 | .00704 | .00095 |
| 179 | -.8 | 3.1 | 2.1 | .06853 | .00808 | .00116 |
| 180 | -1.6 | 4.3 | 4.1 | .08354 | .00819 | .00188 |
| 181 | -1.8 | 4.7 | 6.1 | .10066 | .00994 | .00220 |
| 182 | -2.1 | 5.4 | 8.1 | .11576 | .01069 | .00317 |
| 183 | -3.1 | 6.6 | 10.0 | .12700 | .00993 | .00465 |
| 184 | -3.5 | 7.5 | 11.1 | .13100 | .00907 | .00558 |
| 185 | -4.0 | 8.1 | 12.1 | .13279 | .00859 | .00665 |
| 186 | -.4 | 3.2 | 2.1 | .03601 | -.00226 | .00228 |
| 187 | -.2 | 3.7 | 4.1 | .05448 | -.00384 | .00291 |
| 188 | -.8 | 4.4 | 6.0 | .06947 | -.00558 | .00367 |
| 189 | -1.3 | 5.2 | 8.1 | .08503 | -.00746 | .00481 |
| 190 | -1.6 | 5.8 | 10.1 | .10080 | -.00883 | .00582 |
| 191 | -2.3 | 6.7 | 12.1 | .11401 | -.01093 | .00756 |
| 192 | -2.8 | 7.4 | 13.1 | .11742 | -.01216 | .00850 |
| 193 | -.1 | 2.4 | 4.1 | .04078 | -.00638 | .00285 |
| 194 | -.8 | 3.6 | 6.0 | .05463 | -.00916 | .00382 |
| 196 | -1.4 | 4.6 | 8.0 | .06939 | -.01232 | .00500 |
| 197 | -1.8 | 5.2 | 10.0 | .08592 | -.01530 | .00630 |
| 198 | -2.4 | 6.0 | 12.1 | .10069 | -.01829 | .00780 |
| 199 | -2.5 | 6.3 | 13.1 | .10713 | -.01945 | .00872 |

TABLE VI.- Continued

(a) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 58.82 | 12.68 | 688 | 4.32 | 3.82 | 3.46 | .52 | 4.54 | 1.62 | .58 | 1.48 |
| | | | | 143.55 | 328.83 | 338.59 | 139.39 | 331.82 | 272.92 | 38.47 | 296.41 |
| 169 | 52.69 | 14.92 | 688 | 3.88 | 3.66 | 1.21 | .61 | 5.53 | 2.18 | 1.83 | 2.19 |
| | | | | 142.81 | 333.48 | 312.17 | 172.66 | 327.74 | 278.38 | 356.84 | 289.89 |
| 170 | 54.95 | 16.27 | 688 | 3.35 | 3.88 | 1.89 | .95 | 6.34 | 2.45 | 1.55 | 2.93 |
| | | | | 129.83 | 339.83 | 297.22 | 192.74 | 387.64 | 268.73 | 358.78 | 271.42 |
| 171 | 57.81 | 17.48 | 688 | 3.34 | 4.54 | 2.21 | 1.24 | 6.57 | 2.58 | 1.68 | 2.97 |
| | | | | 113.26 | 352.86 | 294.38 | 228.31 | 299.43 | 258.73 | 341.58 | 267.24 |
| 172 | 59.89 | 18.89 | 688 | 3.57 | 5.61 | 2.88 | 1.79 | 5.86 | 2.88 | 1.11 | 2.77 |
| | | | | 82.31 | 4.58 | 272.59 | 183.54 | 382.46 | 227.95 | 355.89 | 268.58 |
| 173 | 68.77 | 28.77 | 688 | 5.58 | 5.18 | 5.18 | 3.87 | 3.85 | 1.82 | 1.63 | 1.66 |
| | | | | 58.38 | 3.24 | 224.72 | 286.95 | 267.39 | 217.88 | 348.29 | 291.77 |
| 174 | 68.97 | 25.88 | 688 | 6.77 | 6.96 | 7.18 | 3.23 | .89 | .88 | 2.67 | 1.87 |
| | | | | 58.43 | 354.92 | 234.68 | 182.37 | 258.58 | 127.58 | 28.34 | 271.57 |
| 175 | 47.23 | 13.24 | 688 | 5.41 | 4.53 | 1.14 | 1.83 | 3.37 | 1.55 | .46 | 1.38 |
| | | | | 141.39 | 318.83 | 88.64 | 62.73 | 316.53 | 258.68 | 118.86 | 296.92 |
| 176 | 44.88 | 12.44 | 688 | 5.41 | 5.37 | 2.52 | 1.28 | 2.62 | 1.36 | .69 | .97 |
| | | | | 141.85 | 321.88 | 184.53 | 67.24 | 349.13 | 274.83 | 165.85 | 339.92 |
| 177 | 45.78 | 12.84 | 688 | 5.97 | 5.28 | 2.17 | 1.38 | 2.83 | 1.19 | .44 | .56 |
| | | | | 147.53 | 389.85 | 186.11 | 77.72 | .97 | 277.88 | 189.58 | 316.68 |
| 178 | 48.37 | 13.11 | 688 | 5.76 | 4.48 | 1.32 | .98 | 3.82 | 1.83 | .58 | .83 |
| | | | | 158.98 | 389.46 | 89.38 | 185.36 | 355.87 | 278.93 | 151.98 | 317.55 |
| 179 | 58.74 | 12.33 | 688 | 5.58 | 3.72 | .89 | .67 | 3.12 | 1.48 | .44 | .92 |
| | | | | 148.88 | 389.59 | 48.87 | 153.46 | 348.78 | 267.68 | 158.12 | 317.41 |
| 180 | 52.98 | 11.62 | 688 | 5.16 | 3.23 | 1.26 | .83 | 3.82 | 1.51 | .34 | .68 |
| | | | | 137.55 | 311.81 | 347.69 | 218.78 | 296.89 | 227.16 | 158.86 | 239.64 |
| 181 | 55.25 | 14.31 | 688 | 4.29 | 2.68 | 1.78 | 1.76 | 4.81 | 2.82 | .75 | 1.23 |
| | | | | 131.92 | 324.61 | 328.21 | 225.65 | 298.58 | 228.96 | 231.74 | 198.49 |
| 182 | 57.37 | 17.61 | 688 | 3.77 | 3.85 | 2.38 | 2.61 | 4.28 | 2.63 | 1.88 | 1.75 |
| | | | | 114.46 | 339.69 | 284.89 | 231.82 | 287.27 | 219.34 | 219.88 | 188.17 |
| 183 | 58.81 | 21.24 | 688 | 4.24 | 3.86 | 2.13 | 2.63 | 3.82 | 3.85 | 2.41 | 1.98 |
| | | | | 81.11 | 358.31 | 233.32 | 196.46 | 238.18 | 191.15 | 177.49 | 126.46 |
| 184 | 59.35 | 25.45 | 688 | 5.28 | 4.21 | 3.95 | 2.63 | 6.68 | 3.54 | 1.45 | 1.38 |
| | | | | 69.14 | 358.88 | 217.81 | 238.17 | 256.71 | 223.65 | 233.43 | 135.23 |
| 185 | 59.66 | 24.78 | 688 | 6.35 | 6.58 | 6.59 | 2.29 | 5.66 | 1.47 | 1.18 | 2.18 |
| | | | | 58.19 | 358.81 | 245.69 | 261.42 | 265.13 | 219.48 | 75.51 | 115.53 |
| 186 | 48.49 | 9.87 | 689 | 5.81 | 4.83 | 1.88 | .79 | 2.88 | .98 | .19 | .75 |
| | | | | 141.14 | 339.39 | 83.99 | 32.78 | 329.47 | 284.39 | 54.16 | 384.45 |
| 187 | 51.16 | 11.94 | 689 | 4.75 | 3.91 | 1.32 | 1.44 | 3.65 | 1.33 | .79 | 1.47 |
| | | | | 145.11 | 344.73 | 1.44 | 12.71 | 324.88 | 284.83 | 25.54 | 287.83 |
| 188 | 53.42 | 14.48 | 689 | 4.28 | 3.79 | 1.81 | .57 | 5.18 | 1.81 | 1.25 | 2.87 |
| | | | | 136.84 | 347.21 | 295.28 | 287.11 | 388.78 | 247.21 | 353.46 | 252.37 |
| 189 | 55.77 | 17.27 | 689 | 3.79 | 3.93 | 1.66 | 1.35 | 6.41 | 2.22 | 1.68 | 2.48 |
| | | | | 128.78 | 7.82 | 296.21 | 288.84 | 328.48 | 263.71 | 25.81 | 287.85 |
| 190 | 58.34 | 18.56 | 689 | 3.49 | 4.72 | 2.18 | 2.13 | 6.18 | 2.68 | 1.36 | 2.68 |
| | | | | 183.72 | 15.77 | 277.48 | 198.89 | 318.92 | 241.76 | 9.58 | 278.28 |
| 191 | 68.58 | 21.64 | 689 | 4.48 | 5.65 | 2.58 | 2.92 | 5.68 | 3.12 | 2.22 | 3.35 |
| | | | | 73.98 | 31.78 | 234.18 | 196.31 | 311.44 | 264.89 | 355.19 | 291.37 |
| 192 | 61.13 | 25.14 | 689 | 5.67 | 6.29 | 4.28 | 2.73 | 5.55 | 2.11 | 3.82 | 3.84 |
| | | | | 68.92 | 23.81 | 221.66 | 168.13 | 389.55 | 264.88 | 349.66 | 271.32 |
| 193 | 58.88 | 9.86 | 689 | 3.67 | 3.27 | .37 | .35 | 2.84 | .68 | .38 | .71 |
| | | | | 148.28 | 358.54 | 41.28 | 56.55 | 349.34 | 293.85 | 69.89 | 318.68 |
| 194 | 52.42 | 18.71 | 689 | 3.85 | 3.88 | .88 | 2.44 | 2.98 | .58 | .78 | .85 |
| | | | | 136.73 | 355.68 | 389.18 | 47.88 | 315.25 | 264.27 | 18.41 | 255.99 |
| 195 | 54.88 | 12.23 | 689 | 3.68 | 3.75 | 1.28 | .38 | 3.55 | .71 | .76 | .96 |
| | | | | 127.54 | 8.92 | 299.25 | 192.68 | 314.84 | 249.46 | 19.91 | 257.33 |
| 197 | 57.56 | 14.88 | 689 | 3.22 | 4.62 | 2.87 | .82 | 4.49 | 1.13 | 1.85 | 1.33 |
| | | | | 185.18 | 12.91 | 275.14 | 169.56 | 293.63 | 284.74 | 7.38 | 212.33 |
| 198 | 68.16 | 17.14 | 689 | 3.74 | 5.71 | 2.83 | 1.32 | 4.54 | 1.39 | 1.31 | 1.48 |
| | | | | 74.76 | 12.68 | 257.77 | 146.23 | 288.28 | 184.41 | 345.18 | 182.92 |
| 199 | 61.21 | 21.38 | 689 | 4.93 | 5.98 | 3.88 | 1.87 | 6.66 | 1.48 | 1.97 | 1.43 |
| | | | | 65.83 | 24.88 | 246.83 | 162.28 | 292.85 | 231.88 | 337.33 | 198.78 |

TABLE VI.- Continued

(a) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 34 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 168 | 58.68 | 31.24 | 688 | 21.87 | 4.27 | .58 | 1.88 | 6.73 | 1.16 | 1.62 | .49 | AMP |
| | | | | 388.74 | 134.64 | 211.41 | 358.74 | 245.85 | 176.45 | 24.88 | 334.94 | PHASE |
| 169 | 49.68 | 57.96 | 688 | 36.38 | 5.82 | 7.18 | 3.29 | 4.92 | 5.67 | 2.15 | .83 | AMP |
| | | | | 326.99 | 126.71 | 157.62 | 346.98 | 244.96 | 162.47 | 62.74 | 346.87 | PHASE |
| 170 | 48.88 | 72.99 | 688 | 51.78 | 5.34 | 18.97 | 4.17 | 4.37 | 6.85 | .89 | .68 | AMP |
| | | | | 332.68 | 124.55 | 166.18 | 329.46 | 197.48 | 119.48 | 3.19 | 326.77 | PHASE |
| 171 | 47.26 | 97.91 | 688 | 71.96 | 4.41 | 14.23 | 5.38 | 7.49 | 7.74 | 2.15 | .45 | AMP |
| | | | | 348.26 | 138.11 | 184.34 | 329.27 | 146.53 | 94.34 | 319.66 | 337.52 | PHASE |
| 172 | 47.89 | 189.47 | 688 | 91.86 | .98 | 14.42 | 5.63 | 18.85 | 2.82 | 5.84 | 1.57 | AMP |
| | | | | 348.73 | 249.69 | 287.84 | 339.48 | 144.18 | 68.11 | 333.74 | 38.78 | PHASE |
| 173 | 49.33 | 148.81 | 688 | 189.13 | 3.98 | 3.89 | 2.88 | 21.21 | 15.56 | 6.67 | 1.92 | AMP |
| | | | | 358.27 | 284.43 | 219.75 | 187.69 | 161.88 | 127.43 | 146.28 | 229.85 | PHASE |
| 174 | 51.42 | 156.89 | 688 | 117.21 | 13.24 | 3.87 | 3.29 | 13.88 | 18.92 | 4.96 | 2.19 | AMP |
| | | | | 5.77 | 251.49 | 197.99 | 286.72 | 212.39 | 214.98 | 223.14 | 29.88 | PHASE |
| 175 | 46.38 | 29.47 | 688 | 12.73 | 3.19 | 3.87 | 1.99 | 4.69 | 7.71 | 1.46 | .44 | AMP |
| | | | | 275.36 | 147.65 | 251.37 | 37.28 | 254.33 | 186.95 | 48.52 | 382.27 | PHASE |
| 176 | 46.98 | 28.88 | 688 | 5.67 | 2.86 | 1.48 | 2.15 | 5.22 | 5.64 | .98 | .36 | AMP |
| | | | | 268.88 | 138.38 | 251.73 | 73.57 | 287.96 | 188.92 | 98.26 | 12.74 | PHASE |
| 177 | 46.41 | 25.37 | 688 | 11.98 | 3.87 | 4.26 | 2.34 | 3.34 | 5.67 | 1.17 | .89 | AMP |
| | | | | 266.82 | 125.68 | 239.84 | 66.84 | 279.73 | 192.65 | 73.48 | 52.82 | PHASE |
| 178 | 44.33 | 36.47 | 688 | 23.63 | 4.99 | 2.98 | 1.68 | 5.33 | 5.48 | .79 | .46 | AMP |
| | | | | 294.87 | 124.94 | 291.93 | 69.58 | 253.22 | 384.56 | 53.85 | 38.57 | PHASE |
| 179 | 42.28 | 58.12 | 688 | 35.49 | 8.41 | 2.15 | 1.73 | 6.69 | 1.74 | 1.71 | .43 | AMP |
| | | | | 313.68 | 117.47 | 171.86 | 12.68 | 274.68 | 79.16 | 68.88 | .81 | PHASE |
| 180 | 48.71 | 62.41 | 688 | 48.84 | 18.16 | 6.53 | 3.19 | 4.68 | 1.33 | 1.15 | .37 | AMP |
| | | | | 317.71 | 187.93 | 162.95 | 335.69 | 256.48 | 139.24 | 55.35 | 337.94 | PHASE |
| 181 | 38.89 | 85.31 | 688 | 66.15 | 12.33 | 12.93 | 3.77 | 2.25 | 2.54 | 1.64 | .54 | AMP |
| | | | | 336.87 | 183.44 | 179.37 | 331.18 | 116.28 | 65.45 | 233.55 | 384.85 | PHASE |
| 182 | 38.89 | 184.93 | 688 | 85.38 | 11.75 | 15.11 | 4.98 | 8.74 | 5.33 | 2.74 | .23 | AMP |
| | | | | 345.49 | 99.69 | 195.95 | 318.89 | 163.75 | 165.55 | 288.98 | 335.42 | PHASE |
| 183 | 39.59 | 119.41 | 688 | 99.55 | 7.99 | 11.33 | 4.94 | 7.75 | 6.43 | 5.31 | 1.37 | AMP |
| | | | | 349.83 | 96.19 | 223.81 | 351.78 | 148.25 | 384.67 | 341.84 | 73.18 | PHASE |
| 184 | 41.58 | 129.27 | 688 | 186.86 | 4.91 | 6.43 | 4.88 | 15.64 | 18.89 | 9.89 | 3.15 | AMP |
| | | | | 355.88 | 188.98 | 248.64 | 48.15 | 145.29 | 88.83 | 112.15 | 193.22 | PHASE |
| 185 | 44.21 | 158.24 | 688 | 118.62 | 4.24 | 7.35 | 1.38 | 23.52 | 28.73 | 14.21 | 4.48 | AMP |
| | | | | .86 | 219.97 | 221.33 | 128.87 | 184.15 | 193.83 | 284.74 | 295.28 | PHASE |
| 186 | 46.56 | 25.89 | 689 | 12.61 | 3.68 | 3.38 | 1.11 | 4.83 | 2.36 | .68 | .21 | AMP |
| | | | | 289.84 | 171.79 | 287.79 | 345.94 | 261.23 | 224.88 | 58.77 | 313.52 | PHASE |
| 187 | 46.84 | 43.97 | 689 | 29.38 | 4.12 | 3.86 | 3.75 | 6.15 | 6.95 | 1.88 | .35 | AMP |
| | | | | 324.47 | 156.71 | 169.84 | 342.62 | 248.94 | 165.39 | 87.87 | 2.86 | PHASE |
| 188 | 46.32 | 61.65 | 689 | 44.98 | 3.44 | 7.35 | 4.18 | 4.72 | 5.74 | 1.17 | .27 | AMP |
| | | | | 331.48 | 158.85 | 164.46 | 333.33 | 191.14 | 138.21 | 75.53 | 326.47 | PHASE |
| 189 | 46.42 | 84.89 | 689 | 64.21 | 1.61 | 11.71 | 4.14 | 8.83 | 6.13 | .79 | .54 | AMP |
| | | | | 343.66 | 162.77 | 188.31 | 358.97 | 175.88 | 119.15 | 348.16 | 351.47 | PHASE |
| 190 | 46.27 | 188.88 | 689 | 86.45 | 1.37 | 13.96 | 4.63 | 12.47 | 6.32 | 3.14 | .75 | AMP |
| | | | | 358.87 | 337.61 | 283.48 | 358.44 | 168.92 | 73.58 | 343.12 | 8.69 | PHASE |
| 191 | 48.85 | 129.32 | 689 | 188.88 | 7.11 | 6.29 | 5.28 | 17.81 | 15.18 | 5.66 | .97 | AMP |
| | | | | 359.81 | 316.26 | 253.38 | 62.18 | 165.64 | 93.92 | 94.99 | 186.78 | PHASE |
| 192 | 58.89 | 147.53 | 689 | 115.22 | 11.79 | .61 | 2.51 | 23.82 | 17.34 | 6.58 | 1.28 | AMP |
| | | | | 358.65 | 382.88 | 293.45 | 96.24 | 173.22 | 148.28 | 127.47 | 148.19 | PHASE |
| 193 | 47.88 | 38.18 | 689 | 15.53 | 3.51 | 2.58 | 3.89 | 4.88 | 5.15 | .91 | .28 | AMP |
| | | | | 335.28 | 169.19 | 161.88 | .79 | 282.19 | 179.79 | 87.38 | 37.89 | PHASE |
| 194 | 48.84 | 45.16 | 689 | 38.15 | 3.18 | 6.36 | 3.68 | 2.72 | 4.19 | .79 | .12 | AMP |
| | | | | 336.42 | 176.27 | 161.46 | 353.77 | 212.88 | 172.81 | 83.88 | 353.25 | PHASE |
| 196 | 48.78 | 63.94 | 689 | 49.13 | 2.85 | 9.96 | 4.28 | 5.83 | 1.65 | .53 | .25 | AMP |
| | | | | 343.82 | 214.35 | 182.86 | 6.68 | 177.48 | 159.76 | 344.12 | 28.87 | PHASE |
| 197 | 49.41 | 85.79 | 689 | 73.21 | 3.28 | 14.36 | 4.98 | 18.88 | 3.98 | 1.58 | .39 | AMP |
| | | | | 347.83 | 267.41 | 184.65 | 4.51 | 151.49 | 38.96 | 331.62 | 337.11 | PHASE |
| 198 | 58.83 | 189.18 | 689 | 97.35 | 7.86 | 15.96 | 4.93 | 13.99 | 7.85 | 1.76 | .36 | AMP |
| | | | | 348.19 | 276.82 | 183.84 | 356.68 | 144.15 | 19.19 | 332.39 | 336.78 | PHASE |
| 199 | 51.57 | 128.52 | 689 | 188.24 | 9.63 | 18.83 | 2.38 | 18.17 | 12.58 | 3.19 | .53 | AMP |
| | | | | 358.16 | 298.97 | 187.28 | 13.73 | 161.52 | 91.22 | 73.64 | 281.89 | PHASE |

TABLE VI.- Continued

(a) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 5.22 | 2.99 | 688 | 1.56 | .36 | .35 | .38 | .78 | .28 | .84 | .82 AMP |
| | | | | 45.85 | 344.12 | 188.52 | 175.48 | 223.71 | 195.57 | 185.79 | 224.18 PHASE |
| 169 | 4.54 | 4.24 | 688 | 2.16 | .76 | .33 | .51 | .84 | .38 | .84 | .84 AMP |
| | | | | 45.76 | 19.53 | 142.85 | 177.76 | 216.87 | 195.68 | 119.18 | 328.78 PHASE |
| 170 | 3.96 | 5.66 | 688 | 2.92 | 1.38 | .51 | .72 | 1.88 | .28 | .83 | .14 AMP |
| | | | | 45.91 | 21.77 | 172.51 | 176.48 | 194.81 | 286.54 | 357.87 | 299.25 PHASE |
| 171 | 3.29 | 6.88 | 688 | 4.87 | 1.96 | 1.84 | .85 | 1.81 | .13 | .89 | .22 AMP |
| | | | | 37.58 | 29.21 | 189.83 | 186.59 | 197.47 | 245.89 | 323.51 | 318.29 PHASE |
| 172 | 2.33 | 12.61 | 688 | 6.12 | 3.25 | 2.49 | 1.68 | 1.18 | .68 | .25 | .29 AMP |
| | | | | 31.27 | 48.73 | 199.18 | 232.76 | 268.77 | 358.99 | 73.84 | 219.24 PHASE |
| 173 | -4.42 | 22.38 | 688 | 18.79 | 2.84 | 4.52 | 1.37 | 2.98 | 2.78 | 2.18 | .72 AMP |
| | | | | 25.73 | 59.61 | 254.62 | 31.74 | 175.78 | 267.68 | 346.76 | 48.44 PHASE |
| 174 | -2.71 | 38.78 | 688 | 13.79 | 2.54 | 6.13 | 1.41 | 5.18 | 6.35 | 3.58 | .83 AMP |
| | | | | 21.34 | 22.47 | 277.52 | 338.15 | 267.99 | 332.76 | 36.51 | 25.81 PHASE |
| 175 | 5.46 | 2.18 | 688 | 1.17 | .46 | .51 | .87 | .39 | .25 | .17 | .84 AMP |
| | | | | 35.91 | 278.57 | 182.27 | 286.53 | 282.88 | 212.21 | 137.78 | 55.33 PHASE |
| 176 | 6.84 | 2.58 | 688 | 3.82 | .79 | .78 | .87 | .16 | .28 | .14 | .81 AMP |
| | | | | 23.48 | 268.88 | 124.42 | 25.49 | 268.79 | 242.15 | 152.22 | 112.54 PHASE |
| 177 | 6.28 | 2.98 | 688 | 1.25 | .94 | .88 | .23 | .12 | .88 | .88 | .81 AMP |
| | | | | 29.18 | 252.12 | 121.48 | 94.85 | .45 | 285.47 | 118.98 | 389.33 PHASE |
| 178 | 5.49 | 2.97 | 688 | 1.66 | .65 | .95 | .44 | .25 | .85 | .83 | .83 AMP |
| | | | | 36.98 | 259.28 | 116.22 | 183.74 | 247.78 | 123.58 | 83.64 | 136.77 PHASE |
| 179 | 4.76 | 3.51 | 688 | 2.18 | .11 | 1.12 | .47 | .38 | .14 | .88 | .83 AMP |
| | | | | 38.18 | 294.35 | 123.28 | 146.46 | 227.41 | 192.18 | 112.14 | 183.31 PHASE |
| 180 | 4.88 | 4.47 | 688 | 2.68 | .68 | 1.18 | .58 | .58 | .87 | .89 | .88 AMP |
| | | | | 31.49 | 49.88 | 128.13 | 148.17 | 178.48 | 124.16 | 69.19 | 68.88 PHASE |
| 181 | 3.82 | 6.62 | 688 | 3.87 | 1.67 | 1.44 | .72 | .28 | .11 | .86 | .86 AMP |
| | | | | 25.58 | 67.57 | 138.79 | 177.34 | 216.12 | 39.34 | 72.87 | 181.74 PHASE |
| 182 | 2.83 | 9.84 | 688 | 5.57 | 2.17 | 1.48 | .37 | .48 | .38 | .19 | .19 AMP |
| | | | | 24.91 | 78.35 | 189.48 | 314.94 | 113.15 | 138.88 | 218.67 | 171.78 PHASE |
| 183 | .27 | 17.97 | 688 | 8.53 | 2.59 | 3.28 | 2.36 | 1.47 | 1.38 | 1.34 | .68 AMP |
| | | | | 18.53 | 71.81 | 229.87 | 328.23 | 48.89 | 95.31 | 155.39 | 216.21 PHASE |
| 184 | -1.19 | 22.75 | 688 | 18.92 | 2.15 | 4.46 | 2.98 | 3.77 | 3.89 | 1.87 | .71 AMP |
| | | | | 18.18 | 69.99 | 268.89 | 12.79 | 145.89 | 218.78 | 279.72 | 359.28 PHASE |
| 185 | -3.35 | 29.49 | 688 | 14.11 | 2.57 | 5.42 | 1.97 | 5.12 | 6.15 | 4.43 | 2.28 AMP |
| | | | | 16.29 | 32.21 | 291.46 | 27.72 | 236.98 | 317.81 | 27.86 | 77.28 PHASE |
| 186 | 4.71 | 2.35 | 689 | 1.51 | .75 | .38 | .15 | .28 | .87 | .81 | .82 AMP |
| | | | | 58.85 | 328.93 | 194.11 | 141.43 | 215.69 | 222.91 | 48.63 | 152.79 PHASE |
| 187 | 4.11 | 3.32 | 689 | 2.18 | 1.83 | .57 | .42 | .42 | .22 | .84 | .84 AMP |
| | | | | 47.81 | 346.62 | 288.44 | 173.58 | 228.56 | 233.28 | 131.88 | 355.44 PHASE |
| 188 | 3.52 | 4.39 | 689 | 2.72 | 1.29 | .72 | .59 | .54 | .25 | .85 | .84 AMP |
| | | | | 48.44 | 358.65 | 193.18 | 163.68 | 288.43 | 198.47 | 69.29 | 318.72 PHASE |
| 189 | 2.89 | 5.79 | 689 | 3.58 | 1.64 | 1.84 | .77 | .85 | .18 | .84 | .85 AMP |
| | | | | 41.88 | 13.16 | 285.91 | 181.83 | 225.37 | 258.75 | 118.91 | 337.69 PHASE |
| 190 | 2.23 | 8.76 | 689 | 5.88 | 2.45 | 1.61 | .84 | .75 | .15 | .11 | .88 AMP |
| | | | | 36.66 | 24.58 | 282.34 | 181.35 | 228.88 | 346.48 | 64.67 | 219.89 PHASE |
| 191 | .81 | 15.93 | 689 | 8.28 | 2.99 | 3.31 | .91 | 1.12 | .91 | .88 | .48 AMP |
| | | | | 36.34 | 56.65 | 243.18 | 12.19 | 154.31 | 251.49 | 324.11 | 13.68 PHASE |
| 192 | -3.7 | 28.81 | 689 | 18.44 | 2.85 | 4.14 | .69 | 2.19 | 2.29 | 1.41 | .36 AMP |
| | | | | 32.48 | 51.93 | 254.84 | 49.36 | 215.46 | 292.93 | 359.52 | .84 PHASE |
| 193 | 4.22 | 2.45 | 689 | 1.59 | .74 | .31 | .21 | .12 | .84 | .82 | .82 AMP |
| | | | | 48.82 | 348.43 | 222.18 | 188.55 | 245.47 | 247.26 | 127.35 | 36.87 PHASE |
| 194 | 3.57 | 3.15 | 689 | 2.24 | .98 | .43 | .28 | .24 | .12 | .86 | .82 AMP |
| | | | | 42.34 | 348.89 | 215.25 | 179.15 | 288.26 | 194.21 | 188.16 | 313.18 PHASE |
| 196 | 2.93 | 4.15 | 689 | 2.95 | 1.27 | .64 | .32 | .47 | .11 | .84 | .83 AMP |
| | | | | 42.77 | .88 | 228.84 | 181.87 | 196.38 | 225.46 | 112.86 | 29.38 PHASE |
| 197 | 2.34 | 5.53 | 689 | 3.88 | 1.82 | .99 | .43 | .77 | .17 | .18 | .82 AMP |
| | | | | 36.75 | 3.85 | 289.94 | 125.21 | 172.17 | 229.85 | 12.36 | 328.85 PHASE |
| 198 | 1.85 | 7.42 | 689 | 5.28 | 2.54 | 1.28 | .59 | .92 | .38 | .21 | .84 AMP |
| | | | | 33.22 | 3.69 | 288.11 | 82.98 | 158.88 | 239.51 | 338.87 | 251.52 PHASE |
| 199 | 1.88 | 14.81 | 689 | 7.22 | 2.13 | 2.89 | 1.71 | 2.77 | 1.45 | .72 | .18 AMP |
| | | | | 36.31 | 23.75 | 249.44 | 85.78 | 169.38 | 248.34 | 333.88 | 13.58 PHASE |

TABLE VI.- Continued

(a) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 34.68 | 14.25 | 688 | 8.85 | 4.92 | 1.38 | .13 | 3.89 | .57 | .11 | .25 AMP |
| 169 | 37.12 | 16.18 | 688 | 143.56 | 324.68 | 317.79 | 96.52 | 334.78 | 286.46 | 311.33 | 91.91 PHASE |
| 170 | 39.35 | 18.24 | 688 | 8.23 | 4.79 | 2.34 | .32 | 3.87 | .82 | .11 | .54 AMP |
| 171 | 41.61 | 19.58 | 688 | 146.85 | 324.14 | 316.32 | 228.95 | 338.15 | 294.88 | 42.89 | 73.42 PHASE |
| 172 | 43.76 | 21.41 | 688 | 8.22 | 4.79 | 3.19 | .62 | 4.43 | .86 | .88 | .88 AMP |
| 173 | 45.33 | 22.65 | 688 | 143.84 | 325.48 | 314.83 | 231.46 | 313.42 | 277.27 | 57.84 | 58.18 PHASE |
| 174 | 45.25 | 25.37 | 688 | 8.82 | 5.25 | 3.49 | .94 | 4.56 | .77 | .87 | .93 AMP |
| 175 | 32.82 | 15.83 | 688 | 141.34 | 332.79 | 305.58 | 254.46 | 307.11 | 274.52 | 32.56 | 56.24 PHASE |
| 176 | 29.69 | 15.23 | 688 | 8.66 | 5.57 | 2.66 | .96 | 3.66 | .58 | .29 | .92 AMP |
| 177 | 38.11 | 15.28 | 688 | 137.88 | 344.17 | 308.98 | 181.47 | 311.73 | 268.18 | 355.32 | 46.95 PHASE |
| 178 | 32.69 | 14.87 | 688 | 8.37 | 5.12 | 4.68 | 2.76 | 2.98 | .28 | .36 | .43 AMP |
| 179 | 34.99 | 14.65 | 688 | 131.28 | 336.16 | 222.39 | 216.63 | 288.82 | 254.28 | 88.18 | 38.45 PHASE |
| 180 | 37.29 | 14.26 | 688 | 7.15 | 8.32 | 6.51 | 2.52 | .66 | .28 | .21 | .21 AMP |
| 181 | 39.64 | 14.54 | 688 | 129.88 | 335.98 | 238.48 | 189.98 | 321.49 | 146.33 | 145.53 | 13.64 PHASE |
| 182 | 41.85 | 15.78 | 688 | 8.69 | 6.19 | .98 | .57 | 2.46 | .54 | .13 | .18 AMP |
| 183 | 43.38 | 17.61 | 688 | 136.97 | 318.58 | 52.87 | 67.51 | 319.45 | 278.18 | 336.34 | 187.26 PHASE |
| 184 | 43.85 | 21.88 | 688 | 8.28 | 7.12 | 2.21 | .75 | 1.76 | .64 | .12 | .15 AMP |
| 185 | 44.83 | 25.17 | 688 | 137.88 | 322.29 | 86.89 | 72.11 | 353.34 | 294.33 | 387.35 | 165.81 PHASE |
| 186 | 34.13 | 13.84 | 689 | 8.86 | 6.97 | 1.68 | .51 | 1.94 | .59 | .18 | .87 AMP |
| 187 | 36.67 | 13.65 | 689 | 138.73 | 312.53 | 76.48 | 86.45 | 356.49 | 299.53 | 288.81 | 172.53 PHASE |
| 188 | 38.82 | 13.93 | 689 | 9.38 | 6.18 | 1.12 | .22 | 2.11 | .43 | .14 | .86 AMP |
| 189 | 41.19 | 16.47 | 689 | 144.87 | 312.59 | 38.11 | 168.74 | 353.83 | 285.84 | 223.98 | 118.48 PHASE |
| 190 | 43.67 | 18.33 | 689 | 9.54 | 5.46 | 1.68 | .48 | 2.29 | .58 | .89 | .16 AMP |
| 191 | 45.71 | 21.81 | 689 | 145.37 | 308.51 | 354.83 | 232.95 | 348.58 | 288.11 | 294.14 | 135.18 PHASE |
| 192 | 46.58 | 24.98 | 689 | 9.68 | 4.67 | 2.69 | 1.82 | 2.29 | .68 | .85 | .19 AMP |
| 193 | 36.28 | 11.79 | 689 | 148.13 | 382.16 | 328.58 | 252.21 | 299.48 | 246.65 | 184.59 | 11.88 PHASE |
| 194 | 38.38 | 11.95 | 689 | 9.62 | 3.91 | 3.55 | 1.55 | 2.89 | .88 | .15 | .39 AMP |
| 195 | 48.84 | 12.97 | 689 | 141.53 | 383.91 | 322.96 | 249.75 | 295.96 | 258.88 | 231.64 | 1.67 PHASE |
| 196 | 48.84 | 12.97 | 689 | 9.63 | 4.33 | 4.16 | 2.13 | 3.24 | .94 | .28 | .71 AMP |
| 197 | 43.38 | 15.89 | 689 | 148.84 | 388.69 | 383.16 | 243.55 | 292.22 | 258.48 | 317.85 | 1.31 PHASE |
| 198 | 46.81 | 16.63 | 689 | 9.31 | 4.97 | 1.79 | 2.68 | 3.11 | 1.11 | .28 | .67 AMP |
| 199 | 46.99 | 19.92 | 689 | 135.43 | 317.84 | 274.83 | 193.89 | 251.66 | 218.22 | 315.11 | 328.62 PHASE |
| | | | | 9.83 | 5.73 | 3.17 | 2.96 | 4.91 | .95 | .21 | .63 AMP |
| | | | | 133.88 | 319.32 | 218.33 | 227.55 | 271.48 | 247.45 | 68.89 | 323.21 PHASE |
| | | | | 8.88 | 8.86 | 6.87 | 2.75 | 3.88 | .68 | .58 | .68 AMP |
| | | | | 128.14 | 338.18 | 246.45 | 268.23 | 285.58 | 211.49 | 215.62 | 382.28 PHASE |
| | | | | 9.42 | 5.46 | 1.15 | .49 | 1.43 | .34 | .87 | .13 AMP |
| | | | | 139.55 | 337.43 | 68.31 | 32.14 | 348.19 | 299.89 | 328.88 | 132.37 PHASE |
| | | | | 8.88 | 5.84 | 1.89 | .31 | 2.65 | .47 | .16 | .23 AMP |
| | | | | 143.81 | 338.27 | 359.13 | 353.81 | 328.66 | 291.45 | 9.82 | 87.98 PHASE |
| | | | | 9.81 | 4.65 | 1.92 | .49 | 3.58 | .68 | .86 | .51 AMP |
| | | | | 148.21 | 336.54 | 317.11 | 243.38 | 385.82 | 248.56 | 54.97 | 48.28 PHASE |
| | | | | 9.28 | 4.43 | 2.65 | .92 | 4.45 | .75 | .87 | .62 AMP |
| | | | | 144.18 | 351.64 | 316.79 | 228.87 | 326.72 | 275.38 | 145.37 | 71.67 PHASE |
| | | | | 9.26 | 4.64 | 2.85 | 1.45 | 4.54 | .83 | .15 | .74 AMP |
| | | | | 148.47 | 358.63 | 382.47 | 211.49 | 318.26 | 251.33 | 47.38 | 58.52 PHASE |
| | | | | 8.79 | 4.75 | 2.85 | 2.46 | 4.38 | 1.87 | .54 | .88 AMP |
| | | | | 138.72 | 28.16 | 244.23 | 287.65 | 322.86 | 267.48 | 85.35 | 74.26 PHASE |
| | | | | 8.62 | 5.86 | 4.14 | 2.17 | 4.46 | .85 | .55 | .79 AMP |
| | | | | 138.82 | 14.84 | 223.55 | 186.27 | 322.58 | 256.98 | 96.53 | 53.68 PHASE |
| | | | | 7.63 | 4.22 | 1.81 | .27 | 1.57 | .32 | .87 | .82 AMP |
| | | | | 146.64 | 349.88 | 13.21 | 38.94 | 347.53 | 381.18 | 358.99 | 118.98 PHASE |
| | | | | 8.11 | 4.85 | 1.47 | .86 | 2.19 | .28 | .88 | .13 AMP |
| | | | | 141.45 | 346.33 | 338.87 | 335.82 | 314.42 | 256.18 | 326.82 | 43.59 PHASE |
| | | | | 8.21 | 4.18 | 2.87 | .39 | 2.54 | .28 | .87 | .28 AMP |
| | | | | 143.41 | 356.38 | 323.76 | 215.89 | 317.58 | 268.27 | 256.73 | 61.84 PHASE |
| | | | | 8.32 | 4.41 | 2.84 | .87 | 3.29 | .33 | .83 | .36 AMP |
| | | | | 141.15 | .82 | 299.21 | 185.24 | 297.87 | 233.63 | 237.67 | 19.74 PHASE |
| | | | | 8.48 | 5.18 | 3.38 | 1.26 | 3.47 | .36 | .11 | .38 AMP |
| | | | | 136.78 | 2.47 | 282.88 | 166.62 | 285.96 | 224.72 | 8.93 | 347.61 PHASE |
| | | | | 8.45 | 4.78 | 3.84 | 1.14 | 4.98 | .36 | .33 | .48 AMP |
| | | | | 137.51 | 16.18 | 261.12 | 288.99 | 388.91 | 253.25 | 51.78 | 19.42 PHASE |

TABLE VI.- Continued

(a) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|----------------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 33.12 | 28.44 | 608 | 16.63 297.40 | 3.45 132.16 | 1.05 257.31 | 2.19 348.74 | 6.91 259.81 | 1.12 193.40 | 2.61 28.45 | .74 99.48 |
| 169 | 31.42 | 48.53 | 608 | 25.95 323.40 | 5.16 125.28 | 4.86 176.69 | 4.26 345.77 | 5.08 268.58 | 7.91 147.69 | 5.14 72.22 | 1.53 47.30 |
| 170 | 30.63 | 56.92 | 608 | 36.35 330.11 | 5.43 123.45 | 8.25 184.17 | 5.74 329.15 | 3.55 236.19 | 9.00 113.67 | 2.34 71.57 | 2.01 52.52 |
| 171 | 28.07 | 75.41 | 608 | 50.74 338.51 | 5.37 124.87 | 11.76 201.67 | 7.49 329.47 | 4.65 145.07 | 12.15 90.31 | 1.54 314.87 | 2.85 56.42 |
| 172 | 27.86 | 87.76 | 608 | 64.83 344.57 | 2.89 146.71 | 12.91 222.62 | 7.16 341.00 | 9.29 144.34 | 5.12 21.15 | 7.34 11.50 | 4.42 1.28 |
| 173 | 27.64 | 121.86 | 608 | 77.74 357.04 | 2.45 230.19 | 5.58 239.98 | 1.71 170.13 | 24.35 167.33 | 65.06 130.47 | 5.12 138.95 | 7.34 72.87 |
| 174 | 28.99 | 139.98 | 608 | 82.64 4.76 | 11.14 241.52 | 3.60 256.17 | 5.00 223.67 | 19.10 216.26 | 27.20 218.85 | 9.52 197.49 | 4.56 56.09 |
| 175 | 28.17 | 28.97 | 608 | 11.06 272.86 | 2.71 137.52 | 3.12 257.66 | 2.46 27.68 | 5.67 260.26 | 11.41 187.73 | 1.79 33.10 | .52 25.69 |
| 176 | 28.56 | 22.33 | 608 | 6.00 262.34 | 1.81 115.60 | .87 263.14 | 2.12 67.09 | 6.48 288.75 | 7.90 181.56 | 1.00 104.18 | .08 98.26 |
| 177 | 28.41 | 25.99 | 608 | 10.97 262.88 | 2.73 115.96 | 3.10 239.45 | 2.48 61.76 | 3.79 284.75 | 8.22 190.93 | 1.45 68.21 | .08 29.49 |
| 178 | 26.82 | 32.99 | 608 | 18.45 291.16 | 4.72 124.27 | 2.60 290.06 | 1.84 61.36 | 5.46 259.74 | 8.24 302.69 | 1.39 35.08 | .97 104.32 |
| 179 | 25.01 | 43.12 | 608 | 26.39 310.28 | 7.86 117.87 | 2.02 217.57 | 2.23 12.47 | 6.96 283.15 | 2.62 60.93 | 3.71 65.05 | .27 30.98 |
| 180 | 23.45 | 47.85 | 608 | 35.75 315.54 | 9.60 107.98 | 5.34 190.05 | 4.42 333.34 | 5.27 269.51 | 1.23 120.65 | 3.38 49.21 | .86 359.90 |
| 181 | 20.31 | 67.61 | 608 | 48.35 334.52 | 12.52 105.05 | 10.94 200.30 | 6.25 324.98 | 1.06 39.63 | 3.91 50.67 | 2.71 201.55 | 1.50 349.54 |
| 182 | 17.89 | 88.55 | 608 | 62.26 343.71 | 12.00 107.72 | 14.35 210.01 | 7.73 319.59 | 7.00 176.36 | 6.23 150.40 | 4.69 207.11 | 2.05 356.03 |
| 183 | 17.86 | 97.63 | 608 | 72.94 348.29 | 8.96 111.27 | 11.85 245.81 | 5.43 356.42 | 6.67 169.20 | 9.73 307.59 | 9.84 334.26 | 2.21 31.21 |
| 184 | 19.51 | 104.54 | 608 | 77.74 353.19 | 5.82 129.66 | 8.13 270.43 | 3.94 38.45 | 14.85 156.52 | 12.45 81.60 | 13.23 106.20 | 3.42 196.98 |
| 185 | 21.49 | 137.72 | 608 | 80.42 358.35 | 5.49 212.12 | 7.98 264.19 | 1.37 251.00 | 27.24 196.52 | 28.49 203.32 | 22.73 201.82 | 5.19 279.17 |
| 186 | 26.88 | 22.68 | 609 | 10.74 280.92 | 3.01 167.99 | 2.82 297.69 | 2.09 354.62 | 5.99 264.77 | 3.84 231.20 | 1.61 57.05 | .58 99.76 |
| 187 | 26.13 | 36.65 | 609 | 21.59 320.75 | 3.48 151.71 | 1.00 201.62 | 4.48 345.61 | 6.87 256.55 | 9.35 162.53 | 3.81 93.47 | 1.10 62.17 |
| 188 | 25.73 | 49.06 | 609 | 31.86 328.27 | 3.21 143.78 | 5.19 186.06 | 5.07 337.15 | 4.43 216.05 | 7.93 133.59 | 3.07 92.50 | 1.40 49.34 |
| 189 | 25.10 | 63.04 | 609 | 45.15 341.14 | 2.32 145.26 | 9.11 206.45 | 5.46 356.97 | 5.65 183.53 | 8.98 112.23 | 1.26 172.72 | 1.71 56.29 |
| 190 | 23.67 | 77.83 | 609 | 60.95 348.66 | .81 101.45 | 12.14 217.82 | 6.10 350.20 | 9.82 173.43 | 8.84 65.71 | 4.73 341.54 | 2.28 45.78 |
| 191 | 24.20 | 111.28 | 609 | 76.11 350.37 | 3.47 312.20 | 6.79 255.55 | 4.81 59.05 | 16.06 163.82 | 22.49 92.00 | 11.79 94.70 | 2.26 77.00 |
| 192 | 25.86 | 125.79 | 609 | 80.85 357.49 | 7.36 295.14 | 2.36 240.11 | 1.67 127.49 | 24.79 177.23 | 23.55 139.39 | 13.76 120.00 | 3.07 60.64 |
| 193 | 26.92 | 29.31 | 609 | 12.03 330.35 | 2.74 160.53 | 1.07 190.20 | 3.50 4.12 | 4.79 286.48 | 7.33 178.23 | 1.93 109.82 | .64 85.67 |
| 194 | 26.76 | 37.18 | 609 | 21.94 333.03 | 2.37 162.87 | 4.03 182.05 | 4.28 353.55 | 3.01 231.56 | 6.05 169.92 | 2.56 104.75 | 1.17 50.60 |
| 196 | 26.42 | 49.24 | 609 | 34.29 341.45 | 1.93 196.79 | 7.33 197.66 | 5.51 196.31 | 4.07 159.08 | 2.27 159.08 | .85 166.07 | 1.12 72.96 |
| 197 | 26.22 | 63.58 | 609 | 50.88 345.14 | 1.94 259.81 | 1.49 196.79 | 6.25 356.25 | 9.22 157.79 | 6.02 24.09 | 2.10 321.09 | .82 7.35 |
| 198 | 25.53 | 83.28 | 609 | 67.95 346.87 | 4.67 273.34 | 13.00 194.93 | 6.31 346.41 | 12.58 149.94 | 11.10 13.65 | 3.36 341.19 | 1.52 306.47 |
| 199 | 26.58 | 102.77 | 609 | 75.30 355.99 | 6.38 286.75 | 10.28 200.22 | 3.71 358.99 | 17.38 166.15 | 18.92 87.90 | 8.22 72.11 | 2.41 353.58 |

TABLE VI.- Continued

(a) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 4.27 | 2.65 | 688 | 1.74 | .13 | .36 | .23 | .69 | .21 | .83 | .85 AMP |
| 169 | 3.59 | 3.47 | 688 | 29.68 | 324.82 | 87.11 | 143.77 | 173.27 | 126.41 | 61.78 | 34.47 PHASE |
| 170 | 2.98 | 4.78 | 688 | 2.26 | .49 | .37 | .39 | .82 | .28 | .82 | .84 AMP |
| 171 | 2.37 | 5.98 | 688 | 33.86 | 12.77 | 113.77 | 142.38 | 167.98 | 138.23 | 184.48 | 29.76 PHASE |
| 172 | 1.53 | 18.69 | 688 | 2.88 | .92 | .51 | .68 | 1.88 | .13 | .88 | .85 AMP |
| 173 | -1.23 | 18.58 | 688 | 32.17 | 18.16 | 132.98 | 142.87 | 146.44 | 158.74 | 224.59 | 328.37 PHASE |
| 174 | -3.42 | 23.13 | 688 | 3.78 | 1.43 | .88 | .76 | .99 | .11 | .81 | .87 AMP |
| 175 | 4.65 | 1.97 | 688 | 31.19 | 14.35 | 149.95 | 151.57 | 151.85 | 293.28 | 171.82 | 297.88 PHASE |
| 176 | 5.29 | 2.81 | 688 | 5.48 | 2.57 | 2.88 | 1.49 | .93 | .66 | .28 | .15 AMP |
| 177 | 5.34 | 2.43 | 688 | 25.43 | 26.88 | 167.11 | 282.19 | 229.89 | 329.84 | 49.46 | 136.45 PHASE |
| 178 | 4.57 | 2.65 | 688 | 9.44 | 2.36 | 3.47 | 1.21 | 2.28 | 2.22 | 1.66 | .65 AMP |
| 179 | 3.87 | 3.87 | 688 | 18.62 | 51.64 | 232.66 | 3.62 | 139.13 | 231.88 | 298.89 | 355.79 PHASE |
| 180 | 3.11 | 3.81 | 688 | 12.86 | 2.81 | 4.88 | 1.48 | 4.41 | 5.24 | 2.69 | .63 AMP |
| 181 | 2.26 | 5.73 | 688 | 12.78 | 18.78 | 259.61 | 298.76 | 237.84 | 293.56 | 348.74 | 342.65 PHASE |
| 182 | 1.41 | 6.56 | 688 | 1.44 | .35 | .44 | .87 | .39 | .14 | .18 | .87 AMP |
| 183 | -2.21 | 14.55 | 688 | 17.89 | 225.77 | 79.69 | 263.12 | 149.68 | 144.51 | 73.78 | 18.87 PHASE |
| 184 | -1.66 | 18.58 | 688 | 1.89 | .57 | .56 | .82 | .14 | .88 | .87 | .84 AMP |
| 185 | -3.76 | 22.61 | 688 | 7.47 | 226.71 | 183.97 | 358.83 | 184.17 | 169.37 | 78.48 | 66.67 PHASE |
| 186 | 4.81 | 2.19 | 689 | 1.48 | .76 | .62 | .17 | .82 | .82 | .82 | .83 AMP |
| 187 | 3.38 | 3.24 | 689 | 13.97 | 228.27 | 188.83 | 72.98 | 72.84 | 12.73 | 21.16 | 339.88 PHASE |
| 188 | 2.68 | 4.89 | 689 | 1.75 | .57 | .75 | .38 | .26 | .18 | .85 | .87 AMP |
| 189 | 2.84 | 5.28 | 689 | 23.58 | 227.88 | 91.48 | 74.48 | 176.91 | 48.22 | 388.78 | 42.64 PHASE |
| 190 | 1.48 | 7.28 | 689 | 2.12 | .19 | .99 | .42 | .44 | .18 | .87 | .88 AMP |
| 191 | .88 | 13.67 | 689 | 26.53 | 223.75 | 98.74 | 112.56 | 175.39 | 117.78 | 23.33 | 37.83 PHASE |
| 192 | -1.84 | 16.12 | 689 | 2.58 | .35 | 1.82 | .55 | .61 | .88 | .11 | .18 AMP |
| 193 | 3.58 | 2.47 | 689 | 22.57 | 34.42 | 94.63 | 111.71 | 136.28 | 18.48 | .17 | 354.49 PHASE |
| 194 | 2.87 | 3.88 | 689 | 3.46 | 1.22 | 1.38 | .78 | .44 | .37 | .15 | .83 AMP |
| 195 | 2.19 | 3.88 | 689 | 18.72 | 58.33 | 189.78 | 148.53 | 166.34 | 354.25 | 19.65 | 339.85 PHASE |
| 196 | 1.54 | 4.97 | 689 | 4.69 | 1.56 | 1.17 | .22 | .48 | .28 | .87 | .87 AMP |
| 197 | 1.84 | 6.31 | 689 | 18.82 | 58.29 | 148.37 | 277.61 | 72.59 | 55.51 | 163.83 | 88.85 PHASE |
| 198 | 1.84 | 6.31 | 689 | 7.13 | 2.84 | 2.46 | 2.18 | 1.48 | 1.21 | .94 | .45 AMP |
| 199 | .21 | 12.62 | 689 | 11.86 | 53.27 | 199.72 | 288.18 | 9.36 | 49.38 | 189.96 | 169.48 PHASE |
| | | | | 9.29 | 1.72 | 3.47 | 2.49 | 3.17 | 2.44 | 1.54 | .63 AMP |
| | | | | 18.89 | 55.28 | 238.63 | 341.36 | 185.31 | 179.72 | 237.61 | 388.48 PHASE |
| | | | | 12.19 | 2.12 | 4.13 | 1.61 | 3.92 | 5.11 | 3.59 | 1.72 AMP |
| | | | | 7.32 | 17.92 | 272.13 | 352.31 | 283.89 | 279.84 | 338.41 | 25.86 PHASE |
| | | | | 1.78 | .49 | .27 | .15 | .28 | .86 | .83 | .84 AMP |
| | | | | 38.64 | 388.63 | 171.37 | 118.18 | 162.68 | 115.89 | 6.99 | 53.58 PHASE |
| | | | | 2.38 | .72 | .53 | .38 | .42 | .11 | .84 | .86 AMP |
| | | | | 32.88 | 331.42 | 173.79 | 139.88 | 166.16 | 178.18 | 75.87 | 2.58 PHASE |
| | | | | 2.85 | .92 | .65 | .52 | .53 | .18 | .83 | .86 AMP |
| | | | | 28.64 | 335.51 | 168.79 | 129.18 | 146.53 | 136.34 | 58.81 | 356.87 PHASE |
| | | | | 3.55 | 1.21 | .98 | .66 | .82 | .89 | .84 | .87 AMP |
| | | | | 32.15 | 357.73 | 172.86 | 146.95 | 175.98 | 338.27 | 121.91 | 41.98 PHASE |
| | | | | 4.63 | 1.98 | 1.35 | .72 | .69 | .38 | .86 | .88 AMP |
| | | | | 29.65 | 8.98 | 167.37 | 145.74 | 183.88 | 339.59 | 37.78 | 182.45 PHASE |
| | | | | 7.36 | 2.39 | 2.66 | .84 | .99 | .58 | .71 | .38 AMP |
| | | | | 29.82 | 45.84 | 216.59 | 342.53 | 128.79 | 212.75 | 271.32 | 338.23 PHASE |
| | | | | 9.28 | 2.24 | 3.28 | .68 | 1.87 | 1.85 | 1.87 | .31 AMP |
| | | | | 25.57 | 43.84 | 231.92 | 6.23 | 182.28 | 257.96 | 387.91 | 334.83 PHASE |
| | | | | 1.93 | .52 | .88 | .18 | .21 | .87 | .83 | .84 AMP |
| | | | | 34.78 | 331.91 | 198.38 | 158.97 | 187.44 | 179.82 | 78.95 | 33.61 PHASE |
| | | | | 2.45 | .71 | .38 | .24 | .26 | .86 | .86 | .83 AMP |
| | | | | 29.67 | 331.61 | 181.14 | 144.61 | 143.21 | 128.72 | 63.48 | 335.44 PHASE |
| | | | | 3.84 | .94 | .54 | .28 | .47 | .82 | .85 | .86 AMP |
| | | | | 32.32 | 342.54 | 185.61 | 147.11 | 147.48 | 181.15 | 94.37 | 355.84 PHASE |
| | | | | 3.76 | 1.39 | .81 | .37 | .72 | .88 | .81 | .85 AMP |
| | | | | 28.45 | 343.84 | 173.58 | 86.95 | 129.54 | 227.52 | 285.95 | 358.81 PHASE |
| | | | | 4.72 | 1.98 | .95 | .54 | .82 | .22 | .89 | .83 AMP |
| | | | | 26.58 | 343.17 | 169.87 | 47.74 | 111.31 | 223.48 | 264.25 | 316.46 PHASE |
| | | | | 6.45 | 1.58 | 1.51 | 1.51 | 2.41 | 1.16 | .54 | .18 AMP |
| | | | | 29.59 | 13.81 | 224.35 | 55.72 | 131.36 | 213.93 | 278.79 | 333.88 PHASE |

TABLE VI.- Continued

(a) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 21.99 | 14.97 | 608 | 9.73 | 6.19 | 2.58 | .58 | .46 | .91 | .56 | 1.34 AMP |
| | | | | 148.52 | 321.68 | 334.63 | 315.93 | 85.64 | 84.87 | 283.54 | 114.69 PHASE |
| 169 | 24.58 | 16.61 | 608 | 9.89 | 6.16 | 3.88 | .66 | .59 | 1.18 | .95 | 2.85 AMP |
| | | | | 145.48 | 319.78 | 338.27 | 313.59 | 86.56 | 85.86 | 171.28 | 186.91 PHASE |
| 170 | 26.89 | 18.98 | 608 | 18.14 | 6.19 | 4.78 | .84 | .72 | 1.48 | 1.51 | 2.62 AMP |
| | | | | 146.22 | 318.88 | 319.38 | 297.89 | 58.35 | 66.85 | 169.84 | 98.88 PHASE |
| 171 | 29.48 | 28.64 | 608 | 11.17 | 6.56 | 5.88 | 1.83 | .97 | 1.67 | 1.78 | 2.71 AMP |
| | | | | 145.77 | 324.19 | 328.73 | 293.14 | 38.83 | 56.44 | 157.82 | 87.68 PHASE |
| 172 | 31.94 | 28.78 | 608 | 11.42 | 6.99 | 4.85 | 1.45 | .97 | 1.58 | 1.32 | 2.54 AMP |
| | | | | 145.32 | 336.19 | 325.55 | 281.18 | 21.74 | 47.44 | 173.28 | 98.32 PHASE |
| 173 | 33.64 | 21.71 | 608 | 11.51 | 6.78 | 3.38 | 1.76 | 1.79 | 1.21 | 1.82 | 1.89 AMP |
| | | | | 143.69 | 331.83 | 238.31 | 255.88 | 2.58 | 42.68 | 158.89 | 117.98 PHASE |
| 174 | 33.48 | 23.15 | 608 | 9.98 | 18.91 | 5.81 | .85 | 1.11 | .33 | 2.78 | 1.35 AMP |
| | | | | 142.57 | 335.88 | 238.73 | 251.25 | 51.55 | 284.18 | 281.33 | 118.61 PHASE |
| 175 | 19.42 | 16.92 | 608 | 18.64 | 7.73 | 1.78 | .33 | .16 | .79 | .48 | 1.23 AMP |
| | | | | 131.85 | 316.88 | 6.36 | 312.33 | 188.86 | 54.58 | 276.22 | 189.86 PHASE |
| 176 | 16.91 | 18.66 | 608 | 18.53 | 8.93 | 2.34 | .38 | .35 | .55 | .53 | .97 AMP |
| | | | | 138.87 | 328.36 | 68.48 | 326.18 | 191.51 | 88.42 | 327.22 | 168.88 PHASE |
| 177 | 16.92 | 18.85 | 608 | 18.64 | 8.67 | 2.13 | .26 | .44 | .58 | .36 | .43 AMP |
| | | | | 131.63 | 389.86 | 42.87 | 287.48 | 186.17 | 84.63 | 351.88 | 134.64 PHASE |
| 178 | 19.63 | 17.81 | 608 | 11.84 | 7.65 | 2.38 | .57 | .29 | .62 | .29 | .77 AMP |
| | | | | 137.75 | 387.99 | 9.19 | 272.89 | 156.44 | 88.72 | 299.24 | 144.56 PHASE |
| 179 | 22.16 | 17.34 | 608 | 11.42 | 6.71 | 3.24 | .62 | .26 | .63 | .39 | .87 AMP |
| | | | | 148.68 | 383.69 | 352.88 | 279.82 | 128.98 | 78.73 | 294.58 | 146.34 PHASE |
| 180 | 24.77 | 16.49 | 608 | 11.88 | 5.77 | 4.37 | 1.87 | .42 | .91 | .16 | .46 AMP |
| | | | | 137.88 | 294.28 | 331.92 | 275.28 | 18.68 | 29.96 | 332.47 | 64.78 PHASE |
| 181 | 27.53 | 17.84 | 608 | 12.47 | 4.94 | 5.46 | 1.49 | .69 | 1.17 | .58 | 1.82 AMP |
| | | | | 148.66 | 291.48 | 328.84 | 285.39 | 17.53 | 38.35 | 63.86 | 2.19 PHASE |
| 182 | 38.19 | 19.87 | 608 | 13.82 | 5.24 | 5.66 | 1.27 | .98 | 1.73 | 1.57 | 1.63 AMP |
| | | | | 141.88 | 297.95 | 318.38 | 277.44 | 29.95 | 34.86 | 38.33 | 356.16 PHASE |
| 183 | 32.83 | 19.76 | 608 | 13.88 | 5.51 | 2.48 | 1.16 | .87 | 2.18 | 2.13 | 1.63 AMP |
| | | | | 139.33 | 388.11 | 323.82 | 182.96 | 1.83 | .89 | 353.87 | 296.42 PHASE |
| 184 | 32.52 | 23.88 | 608 | 13.85 | 6.25 | 1.61 | 1.51 | 1.96 | 2.26 | 1.48 | 1.88 AMP |
| | | | | 139.11 | 312.96 | 211.49 | 216.76 | 15.78 | 39.89 | 68.89 | 295.78 PHASE |
| 185 | 32.65 | 25.82 | 608 | 11.95 | 18.17 | 4.48 | 1.28 | 2.26 | .81 | 1.28 | 2.81 AMP |
| | | | | 138.11 | 326.96 | 249.83 | 249.54 | 49.12 | 77.62 | 224.52 | 272.85 PHASE |
| 186 | 21.99 | 14.86 | 609 | 18.35 | 6.76 | 1.95 | .52 | .14 | .49 | .28 | .79 AMP |
| | | | | 136.76 | 333.91 | 27.38 | 319.48 | 117.62 | 93.83 | 228.64 | 118.59 PHASE |
| 187 | 24.78 | 15.84 | 609 | 18.99 | 6.34 | 2.57 | .68 | .26 | .71 | .64 | 1.36 AMP |
| | | | | 141.83 | 333.31 | 355.98 | 311.48 | 72.62 | 72.43 | 285.47 | 185.51 PHASE |
| 188 | 27.11 | 16.88 | 609 | 11.42 | 5.81 | 3.46 | .76 | .39 | 1.87 | 1.15 | 1.97 AMP |
| | | | | 141.31 | 329.76 | 327.93 | 284.82 | 36.14 | 49.92 | 168.36 | 68.98 PHASE |
| 189 | 29.79 | 18.91 | 609 | 11.98 | 5.47 | 4.16 | .84 | .66 | 1.39 | 1.56 | 2.48 AMP |
| | | | | 147.89 | 348.13 | 332.76 | 288.83 | 58.17 | 67.14 | 281.54 | 184.71 PHASE |
| 190 | 32.66 | 28.82 | 609 | 12.39 | 5.46 | 4.89 | .91 | .84 | 1.76 | 1.44 | 2.85 AMP |
| | | | | 147.18 | 345.68 | 324.21 | 268.34 | 38.87 | 49.98 | 185.69 | 88.82 PHASE |
| 191 | 34.98 | 22.48 | 609 | 12.28 | 5.44 | 1.11 | 1.51 | 1.25 | 2.89 | 2.32 | 3.68 AMP |
| | | | | 149.92 | 18.82 | 276.34 | 242.81 | 36.46 | 73.85 | 171.37 | 189.55 PHASE |
| 192 | 35.76 | 24.88 | 609 | 11.91 | 5.77 | 3.28 | 1.55 | 1.48 | 1.51 | 3.81 | 3.32 AMP |
| | | | | 145.86 | 3.81 | 222.18 | 238.47 | 47.15 | 71.28 | 166.83 | 91.38 PHASE |
| 193 | 24.67 | 13.88 | 609 | 9.24 | 5.18 | 2.18 | .41 | .11 | .19 | .34 | .78 AMP |
| | | | | 145.65 | 342.34 | 2.64 | 388.68 | 191.78 | 83.17 | 248.89 | 138.79 PHASE |
| 194 | 27.83 | 14.25 | 609 | 9.96 | 4.85 | 2.76 | .43 | .85 | .26 | .63 | .88 AMP |
| | | | | 143.39 | 336.32 | 338.56 | 287.37 | 276.62 | 53.13 | 186.78 | 71.68 PHASE |
| 196 | 29.77 | 15.52 | 609 | 18.39 | 4.84 | 3.33 | .46 | .18 | .38 | .79 | .98 AMP |
| | | | | 147.97 | 345.57 | 331.64 | 285.17 | 39.16 | 46.15 | 199.89 | 75.78 PHASE |
| 197 | 32.68 | 17.54 | 609 | 18.76 | 4.98 | 3.79 | .69 | .35 | .79 | 1.18 | 1.38 AMP |
| | | | | 148.89 | 347.68 | 312.68 | 254.83 | 48.18 | 14.55 | 198.28 | 31.22 PHASE |
| 198 | 35.78 | 18.61 | 609 | 11.36 | 5.62 | 3.92 | .96 | .39 | .97 | 1.32 | 1.41 AMP |
| | | | | 146.98 | 349.43 | 296.63 | 248.56 | 18.18 | 354.55 | 167.78 | 3.98 PHASE |
| 199 | 36.69 | 28.18 | 609 | 11.49 | 5.15 | 3.53 | 1.29 | 1.87 | 1.18 | 1.88 | 1.45 AMP |
| | | | | 158.62 | 2.62 | 272.87 | 264.86 | 32.57 | 38.91 | 157.45 | 23.28 PHASE |

TABLE VI.- Continued

(a) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 41.98 | 38.81 | 688 | 14.24 | 3.57 | 1.64 | 2.88 | 7.14 | 1.34 | 3.31 | 1.46 AMP |
| | | | | 297.28 | 138.88 | 275.64 | 355.79 | 265.87 | 175.12 | 22.51 | 117.84 PHASE |
| 169 | 48.61 | 46.28 | 688 | 21.26 | 5.36 | 3.87 | 5.87 | 5.86 | 18.89 | 7.27 | 2.73 AMP |
| | | | | 322.84 | 133.24 | 198.15 | 347.71 | 278.41 | 146.94 | 88.85 | 64.51 PHASE |
| 178 | 39.34 | 52.33 | 688 | 29.21 | 5.88 | 7.45 | 6.95 | 2.94 | 11.61 | 3.99 | 4.11 AMP |
| | | | | 329.75 | 138.61 | 281.14 | 329.81 | 252.94 | 113.47 | 91.55 | 64.29 PHASE |
| 171 | 36.94 | 73.94 | 688 | 48.52 | 5.98 | 11.22 | 8.94 | 4.13 | 15.75 | .67 | 5.43 AMP |
| | | | | 338.54 | 138.34 | 214.58 | 338.78 | 138.35 | 92.22 | 381.17 | 64.28 PHASE |
| 172 | 36.13 | 88.36 | 688 | 58.98 | 3.27 | 12.86 | 7.93 | 9.21 | 6.73 | 8.64 | 7.18 AMP |
| | | | | 344.89 | 141.88 | 238.85 | 342.55 | 139.58 | 73.84 | 338.86 | 68.97 PHASE |
| 173 | 33.91 | 118.18 | 688 | 61.41 | 3.25 | 7.32 | 2.47 | 26.58 | 24.74 | 14.37 | 3.56 AMP |
| | | | | 356.81 | 281.91 | 239.73 | 285.13 | 169.66 | 136.97 | 141.26 | 61.84 PHASE |
| 174 | 34.65 | 135.38 | 688 | 63.73 | 11.28 | 5.39 | 6.62 | 22.89 | 33.57 | 12.84 | 6.88 AMP |
| | | | | 4.95 | 238.95 | 268.55 | 234.18 | 218.45 | 224.93 | 197.86 | 61.53 PHASE |
| 175 | 34.78 | 31.98 | 688 | 9.77 | 2.46 | 2.77 | 2.86 | 6.33 | 13.93 | 2.32 | .69 AMP |
| | | | | 274.32 | 148.85 | 265.84 | 38.66 | 266.59 | 188.55 | 38.59 | 68.81 PHASE |
| 176 | 35.43 | 25.57 | 688 | 5.61 | 1.49 | .59 | 2.38 | 7.18 | 9.36 | .91 | .63 AMP |
| | | | | 262.71 | 185.48 | 296.96 | 72.88 | 291.86 | 182.17 | 183.17 | 156.78 PHASE |
| 177 | 35.55 | 27.85 | 688 | 9.88 | 2.36 | 2.58 | 2.66 | 4.25 | 9.87 | 1.77 | .27 AMP |
| | | | | 262.86 | 115.36 | 246.66 | 68.13 | 287.43 | 198.51 | 64.88 | 165.29 PHASE |
| 178 | 34.78 | 32.58 | 688 | 15.73 | 4.53 | 2.81 | 2.12 | 5.45 | 9.98 | 1.72 | 1.42 AMP |
| | | | | 288.57 | 127.57 | 296.81 | 63.76 | 263.42 | 385.28 | 37.88 | 112.37 PHASE |
| 179 | 33.53 | 41.51 | 688 | 21.82 | 7.36 | 1.97 | 2.78 | 7.11 | 3.75 | 5.15 | .35 AMP |
| | | | | 387.79 | 124.13 | 244.84 | 15.92 | 287.65 | 64.94 | 66.54 | 51.42 PHASE |
| 188 | 31.83 | 45.52 | 688 | 29.83 | 9.17 | 4.74 | 5.38 | 5.52 | 1.58 | 4.98 | 1.56 AMP |
| | | | | 313.84 | 113.41 | 288.22 | 333.33 | 279.18 | 182.48 | 53.32 | 6.89 PHASE |
| 181 | 28.89 | 64.51 | 688 | 39.26 | 12.44 | 18.63 | 7.55 | 2.34 | 5.44 | 3.54 | 2.58 AMP |
| | | | | 333.15 | 189.18 | 211.38 | 321.81 | 19.83 | 48.81 | 193.46 | .35 PHASE |
| 182 | 26.38 | 84.26 | 688 | 58.54 | 13.33 | 15.54 | 9.77 | 6.11 | 7.46 | 5.94 | 3.66 AMP |
| | | | | 343.53 | 112.83 | 227.89 | 315.78 | 176.68 | 148.17 | 292.54 | 8.86 PHASE |
| 183 | 26.13 | 93.93 | 688 | 58.91 | 9.89 | 12.93 | 5.89 | 5.87 | 12.83 | 13.54 | 3.83 AMP |
| | | | | 348.18 | 116.18 | 248.31 | 346.92 | 178.43 | 311.76 | 338.29 | 31.29 PHASE |
| 184 | 27.12 | 97.64 | 688 | 62.61 | 6.45 | 9.47 | 3.41 | 14.97 | 13.63 | 16.33 | 3.29 AMP |
| | | | | 352.58 | 136.82 | 268.96 | 23.62 | 159.62 | 86.39 | 184.78 | 289.37 PHASE |
| 185 | 28.75 | 135.99 | 688 | 63.83 | 6.17 | 18.54 | 3.86 | 29.53 | 33.96 | 27.38 | 6.28 AMP |
| | | | | 357.41 | 219.82 | 275.76 | 282.38 | 282.85 | 211.57 | 284.49 | 279.58 PHASE |
| 186 | 33.42 | 24.16 | 689 | 9.28 | 2.57 | 2.88 | 2.44 | 6.48 | 4.63 | 2.81 | .97 AMP |
| | | | | 289.96 | 166.85 | 389.55 | 2.83 | 268.62 | 231.88 | 58.45 | 116.18 PHASE |
| 187 | 32.38 | 37.54 | 689 | 17.93 | 3.41 | 1.38 | 5.19 | 7.43 | 11.79 | 5.39 | 1.93 AMP |
| | | | | 328.83 | 155.32 | 238.63 | 358.93 | 261.31 | 162.75 | 97.33 | 76.91 PHASE |
| 188 | 31.79 | 44.76 | 689 | 26.84 | 3.43 | 4.35 | 6.17 | 4.35 | 18.89 | 5.98 | 2.95 AMP |
| | | | | 327.76 | 147.73 | 286.34 | 337.61 | 222.92 | 133.39 | 182.83 | 57.14 PHASE |
| 189 | 31.18 | 59.61 | 689 | 36.68 | 3.83 | 8.37 | 6.62 | 4.83 | 11.65 | 3.85 | 3.16 AMP |
| | | | | 341.88 | 148.68 | 222.38 | 355.85 | 179.83 | 113.99 | 175.55 | 74.26 PHASE |
| 198 | 29.29 | 73.48 | 689 | 49.16 | 1.91 | 12.86 | 7.22 | 8.59 | 11.38 | 5.15 | 3.96 AMP |
| | | | | 348.33 | 121.88 | 228.98 | 347.22 | 171.39 | 69.75 | 347.11 | 68.34 PHASE |
| 191 | 28.98 | 187.59 | 689 | 68.98 | .76 | 7.25 | 4.47 | 16.19 | 27.49 | 16.15 | 4.38 AMP |
| | | | | 358.49 | 314.23 | 254.28 | 58.12 | 159.57 | 95.57 | 181.54 | 75.18 PHASE |
| 192 | 38.23 | 121.71 | 689 | 63.67 | 4.34 | 3.98 | 1.84 | 25.66 | 27.79 | 18.83 | 6.34 AMP |
| | | | | 357.92 | 285.18 | 231.39 | 17.32 | 178.51 | 143.78 | 125.18 | 56.23 PHASE |
| 193 | 32.57 | 34.24 | 689 | 18.28 | 2.39 | .53 | 3.97 | 5.34 | 9.87 | 2.69 | .94 AMP |
| | | | | 328.94 | 164.52 | 223.98 | 18.65 | 289.59 | 178.84 | 111.82 | 91.36 PHASE |
| 194 | 32.85 | 36.56 | 689 | 18.14 | 2.28 | 3.14 | 5.85 | 3.38 | 7.52 | 3.79 | 1.98 AMP |
| | | | | 332.37 | 166.51 | 196.56 | 356.61 | 239.87 | 169.21 | 189.62 | 53.94 PHASE |
| 196 | 31.49 | 44.91 | 689 | 28.11 | 1.97 | 6.34 | 6.27 | 3.85 | 3.82 | 1.78 | 2.88 AMP |
| | | | | 341.31 | 194.88 | 212.33 | 6.47 | 199.96 | 162.76 | 178.97 | 79.86 PHASE |
| 197 | 38.58 | 57.86 | 689 | 41.12 | 1.29 | 18.77 | 7.89 | 8.57 | 7.32 | 2.12 | 1.64 AMP |
| | | | | 345.22 | 244.12 | 289.79 | 353.95 | 159.13 | 29.48 | 326.24 | 28.54 PHASE |
| 198 | 29.83 | 74.28 | 689 | 54.63 | 3.85 | 13.18 | 7.21 | 11.74 | 13.58 | 4.18 | 2.53 AMP |
| | | | | 347.19 | 274.84 | 285.35 | 342.27 | 151.67 | 16.88 | 354.88 | 319.65 PHASE |
| 199 | 29.71 | 95.84 | 689 | 68.88 | 4.86 | 18.98 | 4.42 | 17.87 | 23.23 | 11.64 | 4.52 AMP |
| | | | | 357.58 | 281.53 | 212.17 | 354.18 | 166.32 | 91.99 | 88.48 | 1.87 PHASE |

TABLE VI.- Continued

(a) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | .44 | 2.26 | 688 | 1.58 | .28 | .21 | .16 | .55 | .17 | .82 | .18 |
| | | | | 46.14 | 318.34 | 97.48 | 177.35 | 196.39 | 148.59 | 164.75 | 89.89 |
| 169 | -.82 | 3.11 | 688 | 1.98 | .35 | .21 | .28 | .67 | .16 | .84 | .16 |
| | | | | 48.87 | 353.28 | 121.25 | 171.92 | 191.15 | 148.93 | 124.39 | 71.14 |
| 170 | -.42 | 4.18 | 688 | 2.35 | .65 | .26 | .44 | .83 | .85 | .84 | .18 |
| | | | | 46.75 | 358.65 | 145.56 | 166.24 | 178.38 | 176.52 | 68.83 | 41.32 |
| 171 | -.79 | 4.74 | 688 | 2.96 | .95 | .58 | .68 | .88 | .17 | .89 | .19 |
| | | | | 47.82 | 4.28 | 162.14 | 169.18 | 175.99 | 341.16 | 47.57 | 48.11 |
| 172 | -1.35 | 7.85 | 688 | 3.99 | 1.67 | 1.36 | 1.15 | .72 | .78 | .27 | .18 |
| | | | | 48.46 | 25.63 | 178.48 | 221.19 | 252.95 | 7.87 | 84.58 | 128.52 |
| 173 | -3.43 | 13.38 | 688 | 6.59 | 1.39 | 2.29 | .77 | 1.53 | 1.77 | 1.47 | .69 |
| | | | | 29.91 | 52.86 | 246.74 | 16.17 | 167.55 | 273.77 | 338.91 | 51.88 |
| 174 | -5.39 | 17.78 | 688 | 8.49 | 1.57 | 3.23 | 1.41 | 3.22 | 4.22 | 2.29 | .56 |
| | | | | 21.78 | 7.97 | 276.18 | 314.24 | 272.79 | 332.58 | 38.87 | 38.58 |
| 175 | .18 | 1.74 | 688 | 1.23 | .33 | .25 | .85 | .31 | .89 | .87 | .89 |
| | | | | 37.57 | 256.83 | 91.51 | 251.41 | 177.46 | 156.59 | 91.59 | 76.75 |
| 176 | .67 | 1.68 | 688 | .95 | .52 | .37 | .82 | .15 | .89 | .87 | .86 |
| | | | | 31.63 | 253.19 | 124.13 | 181.21 | 221.88 | 165.99 | 53.35 | 136.79 |
| 177 | .68 | 1.98 | 688 | 1.19 | .65 | .39 | .14 | .84 | .85 | .11 | .83 |
| | | | | 32.81 | 242.55 | 116.16 | 94.98 | 247.14 | 187.58 | 46.51 | 45.87 |
| 178 | .13 | 2.15 | 688 | 1.45 | .56 | .47 | .25 | .22 | .11 | .85 | .89 |
| | | | | 39.99 | 251.21 | 182.18 | 92.87 | 286.18 | 88.88 | 345.89 | 55.32 |
| 179 | -.33 | 2.22 | 688 | 1.68 | .36 | .56 | .38 | .36 | .89 | .88 | .13 |
| | | | | 45.64 | 259.64 | 186.79 | 125.88 | 195.76 | 138.64 | .43 | 62.49 |
| 180 | -.79 | 2.54 | 688 | 1.96 | .28 | .54 | .42 | .54 | .86 | .18 | .16 |
| | | | | 43.85 | 291.41 | 99.74 | 124.68 | 159.85 | 38.22 | 354.57 | 16.85 |
| 181 | -1.23 | 3.83 | 688 | 2.38 | .36 | .83 | .66 | .54 | .32 | .24 | .11 |
| | | | | 44.18 | 38.83 | 113.81 | 146.18 | 184.93 | 7.61 | 37.91 | 58.82 |
| 182 | -1.52 | 4.41 | 688 | 2.92 | .66 | .98 | .28 | .21 | .53 | .23 | .82 |
| | | | | 45.84 | 31.12 | 132.88 | 166.95 | 181.38 | 63.15 | 138.29 | 178.86 |
| 183 | -2.52 | 18.79 | 688 | 4.34 | 1.24 | 1.57 | 1.45 | 1.49 | 1.35 | .81 | .28 |
| | | | | 29.96 | 44.78 | 193.34 | 296.33 | 36.86 | 85.92 | 153.42 | 219.52 |
| 184 | -3.67 | 13.32 | 688 | 5.98 | 1.18 | 2.88 | 1.58 | 2.51 | 1.92 | 1.39 | .65 |
| | | | | 25.28 | 54.89 | 243.79 | 358.17 | 127.35 | 214.81 | 286.28 | 12.85 |
| 185 | -5.37 | 16.58 | 688 | 7.98 | 1.84 | 2.35 | 1.38 | 2.49 | 4.29 | 3.33 | 1.42 |
| | | | | 17.66 | 19.98 | 282.29 | 355.78 | 233.68 | 316.72 | 21.88 | 82.95 |
| 186 | -.37 | 1.95 | 689 | 1.49 | .45 | .17 | .13 | .23 | .86 | .83 | .86 |
| | | | | 47.23 | 315.47 | 188.75 | 152.13 | 185.76 | 136.28 | 42.24 | 86.82 |
| 187 | -.81 | 2.63 | 689 | 1.96 | .68 | .34 | .29 | .34 | .87 | .84 | .89 |
| | | | | 47.89 | 329.14 | 187.95 | 178.23 | 187.24 | 185.56 | 128.87 | 58.78 |
| 188 | -1.23 | 3.11 | 689 | 2.48 | .71 | .44 | .48 | .44 | .85 | .84 | .13 |
| | | | | 43.85 | 333.14 | 176.36 | 168.81 | 167.96 | 124.62 | 181.55 | 34.22 |
| 189 | -1.65 | 3.94 | 689 | 2.98 | .88 | .62 | .52 | .78 | .14 | .85 | .15 |
| | | | | 46.82 | 354.87 | 187.87 | 177.31 | 198.52 | 23.29 | 161.32 | 83.59 |
| 190 | -2.88 | 5.37 | 689 | 3.61 | 1.28 | .94 | .68 | .57 | .31 | .86 | .15 |
| | | | | 44.21 | 7.34 | 179.77 | 174.14 | 283.78 | 22.13 | 112.84 | 93.66 |
| 191 | -2.89 | 18.18 | 689 | 5.49 | 1.47 | 1.85 | .68 | .75 | .58 | .59 | .32 |
| | | | | 42.88 | 51.13 | 232.84 | 353.25 | 151.99 | 261.11 | 386.86 | 49.64 |
| 192 | -3.69 | 11.84 | 689 | 6.77 | 1.36 | 2.29 | .41 | 1.33 | 1.62 | .91 | .37 |
| | | | | 36.89 | 48.22 | 248.81 | 356.84 | 216.98 | 299.45 | 348.65 | 42.33 |
| 193 | -.56 | 2.89 | 689 | 1.67 | .46 | .28 | .15 | .18 | .84 | .82 | .85 |
| | | | | 58.28 | 338.94 | 286.84 | 174.19 | 289.61 | 192.77 | 96.56 | 81.81 |
| 194 | -.99 | 2.58 | 689 | 2.86 | .57 | .26 | .28 | .21 | .84 | .86 | .84 |
| | | | | 45.18 | 329.85 | 196.84 | 163.85 | 168.45 | 113.88 | 184.88 | 7.43 |
| 196 | -1.46 | 3.23 | 689 | 2.53 | .71 | .37 | .23 | .38 | .82 | .85 | .89 |
| | | | | 46.75 | 348.95 | 199.81 | 173.91 | 173.18 | 15.38 | 131.56 | 33.86 |
| 197 | -1.98 | 3.87 | 689 | 3.86 | .99 | .55 | .28 | .59 | .87 | .82 | .89 |
| | | | | 42.56 | 348.87 | 185.92 | 127.68 | 154.65 | 295.73 | 168.28 | 6.83 |
| 198 | -2.16 | 4.62 | 689 | 3.73 | 1.38 | .68 | .34 | .64 | .19 | .85 | .87 |
| | | | | 48.89 | 351.25 | 177.32 | 84.46 | 136.48 | 264.24 | 248.37 | 333.65 |
| 199 | -2.82 | 9.54 | 689 | 5.88 | .98 | 1.88 | 1.83 | 1.85 | 1.88 | .42 | .19 |
| | | | | 41.18 | 18.48 | 241.85 | 84.38 | 168.23 | 257.81 | 313.13 | 9.47 |

TABLE VI.- Continued

(a) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 4.5# | 19.57 | 688 | 9.26 | 5.68 | 2.74 | 1.84 | 4.79 | .45 | .74 | 1.72 |
| | | | | 141.69 | 297.88 | 358.53 | 38.48 | 149.12 | 189.82 | .14 | 298.65 |
| 169 | 7.18 | 21.48 | 688 | 9.13 | 6.19 | 3.78 | 2.54 | 5.84 | .67 | 1.45 | 2.58 |
| | | | | 147.29 | 289.23 | 352.37 | 24.42 | 147.45 | 198.28 | 341.98 | 284.83 |
| 170 | 9.9# | 24.43 | 688 | 9.57 | 6.28 | 4.47 | 3.16 | 6.93 | .77 | 2.84 | 3.13 |
| | | | | 148.75 | 283.24 | 349.15 | 19.54 | 138.88 | 172.97 | 336.47 | 268.37 |
| 171 | 12.64 | 27.22 | 688 | 10.77 | 6.28 | 5.22 | 3.59 | 7.78 | 1.24 | 2.59 | 3.27 |
| | | | | 147.95 | 288.82 | 356.18 | 32.38 | 125.88 | 185.85 | 319.86 | 271.19 |
| 172 | 15.47 | 28.84 | 688 | 11.18 | 6.34 | 5.67 | 3.88 | 7.51 | 1.53 | 2.38 | 3.82 |
| | | | | 150.33 | 303.17 | 18.88 | 28.57 | 134.85 | 285.12 | 323.33 | 279.18 |
| 173 | 17.53 | 26.94 | 688 | 11.59 | 6.56 | 3.98 | 3.45 | 5.72 | 1.69 | 3.88 | 2.78 |
| | | | | 154.22 | 314.37 | 56.49 | 34.19 | 118.84 | 284.88 | 388.69 | 389.21 |
| 174 | 17.29 | 26.52 | 688 | 10.69 | 18.28 | 3.87 | 3.37 | 4.83 | 2.12 | 2.82 | 2.23 |
| | | | | 156.95 | 338.83 | 86.68 | 2.68 | 147.36 | 226.14 | 348.11 | 298.64 |
| 175 | 1.41 | 18.33 | 688 | 10.33 | 6.52 | 2.27 | .88 | 3.58 | .38 | .26 | 1.75 |
| | | | | 131.97 | 386.79 | 357.31 | 31.92 | 125.17 | 143.98 | 91.28 | 283.87 |
| 176 | -1.11 | 18.19 | 688 | 10.77 | 7.49 | 1.82 | .59 | 2.34 | .23 | .41 | 1.42 |
| | | | | 131.54 | 328.87 | 22.35 | 186.28 | 158.25 | 131.28 | 139.38 | 329.46 |
| 177 | -1.85 | 18.85 | 688 | 10.16 | 7.68 | 1.72 | .11 | 2.98 | .63 | .41 | .67 |
| | | | | 132.66 | 382.82 | 18.29 | 97.14 | 163.26 | 132.52 | 146.77 | 388.94 |
| 178 | 1.84 | 19.84 | 688 | 9.78 | 7.38 | 2.46 | 1.11 | 3.48 | .55 | .29 | 1.19 |
| | | | | 138.11 | 295.27 | 7.55 | 44.33 | 156.68 | 125.96 | 115.45 | 317.26 |
| 179 | 4.4# | 28.61 | 688 | 9.49 | 7.82 | 3.19 | 2.83 | 3.86 | .83 | .26 | 1.26 |
| | | | | 142.29 | 287.87 | 4.37 | 48.83 | 149.48 | 137.91 | 186.71 | 318.77 |
| 180 | 7.85 | 28.7# | 688 | 9.49 | 6.53 | 4.12 | 3.35 | 4.83 | .86 | .33 | .84 |
| | | | | 148.68 | 275.27 | 355.92 | 38.73 | 111.93 | 126.78 | 236.44 | 252.39 |
| 181 | 18.22 | 22.47 | 688 | 9.71 | 6.18 | 5.88 | 3.72 | 4.95 | .77 | 1.89 | .92 |
| | | | | 144.71 | 272.28 | 358.53 | 43.98 | 117.79 | 167.53 | 266.34 | 187.53 |
| 182 | 12.94 | 23.62 | 688 | 10.83 | 6.88 | 4.38 | 3.15 | 4.99 | .96 | 1.76 | 1.65 |
| | | | | 152.18 | 276.78 | 356.88 | 46.84 | 123.68 | 192.66 | 245.15 | 165.78 |
| 183 | 15.41 | 24.87 | 688 | 11.17 | 7.42 | 3.55 | 3.16 | 3.35 | .68 | 1.29 | 2.88 |
| | | | | 155.84 | 276.95 | 12.13 | 19.66 | 87.85 | 248.98 | 195.99 | 99.72 |
| 184 | 16.35 | 27.94 | 688 | 12.89 | 7.65 | 3.48 | 2.77 | 6.13 | .76 | 2.32 | 1.85 |
| | | | | 157.42 | 288.28 | 65.22 | 61.78 | 91.13 | 237.87 | 263.55 | 89.75 |
| 185 | 16.56 | 25.88 | 688 | 10.83 | 8.97 | 3.52 | 2.24 | 6.28 | 1.45 | 1.77 | 2.32 |
| | | | | 156.52 | 323.86 | 186.17 | 181.56 | 189.32 | 235.18 | 338.88 | 74.33 |
| 186 | 3.41 | 15.53 | 689 | 10.86 | 5.61 | 2.66 | .83 | 2.86 | .33 | .28 | .96 |
| | | | | 138.31 | 321.83 | 11.79 | 65.35 | 151.19 | 143.23 | 37.39 | 297.15 |
| 187 | 6.16 | 18.86 | 689 | 10.61 | 5.48 | 3.69 | 1.56 | 4.23 | .59 | .84 | 1.59 |
| | | | | 142.56 | 389.99 | 5.84 | 44.18 | 145.94 | 171.79 | 2.87 | 281.87 |
| 188 | 8.84 | 22.31 | 689 | 11.81 | 5.34 | 4.58 | 2.69 | 6.85 | .62 | 1.58 | 2.34 |
| | | | | 141.69 | 292.61 | 351.31 | 24.85 | 123.86 | 162.14 | 324.33 | 245.33 |
| 189 | 11.83 | 26.67 | 689 | 11.65 | 5.29 | 5.39 | 3.67 | 7.88 | .82 | 1.89 | 2.69 |
| | | | | 148.89 | 291.47 | 3.51 | 37.11 | 143.52 | 189.18 | 354.18 | 288.44 |
| 190 | 15.21 | 29.21 | 689 | 12.56 | 5.86 | 5.94 | 4.74 | 8.43 | 1.82 | 1.94 | 3.18 |
| | | | | 149.79 | 286.14 | 2.78 | 26.98 | 136.11 | 191.68 | 332.16 | 266.79 |
| 191 | 18.23 | 31.38 | 689 | 13.49 | 4.37 | 5.86 | 4.86 | 8.58 | 1.85 | 3.82 | 3.93 |
| | | | | 157.36 | 384.44 | 31.63 | 39.82 | 143.44 | 218.43 | 338.88 | 287.72 |
| 192 | 18.91 | 31.61 | 689 | 12.89 | 4.76 | 3.41 | 3.71 | 9.86 | 1.53 | 4.53 | 3.62 |
| | | | | 157.43 | 312.49 | 38.37 | 15.81 | 138.62 | 283.37 | 326.98 | 272.95 |
| 193 | 6.31 | 14.25 | 689 | 8.93 | 4.13 | 2.53 | .91 | 2.23 | .36 | .49 | .92 |
| | | | | 146.18 | 323.81 | 18.92 | 54.97 | 164.88 | 132.98 | 52.78 | 314.78 |
| 194 | 8.86 | 16.82 | 689 | 9.32 | 3.94 | 3.11 | 1.34 | 3.32 | .31 | .88 | .98 |
| | | | | 143.88 | 383.84 | 353.98 | 23.32 | 138.24 | 98.73 | 352.25 | 254.32 |
| 196 | 11.81 | 18.24 | 689 | 9.78 | 4.16 | 3.91 | 1.95 | 4.17 | .38 | .93 | 1.15 |
| | | | | 147.28 | 296.73 | 359.56 | 23.75 | 134.18 | 124.66 | 354.98 | 251.86 |
| 197 | 15.28 | 21.46 | 689 | 10.12 | 4.87 | 4.53 | 2.71 | 5.53 | .22 | .97 | 1.45 |
| | | | | 147.25 | 288.66 | 351.12 | 1.59 | 116.83 | 93.28 | 346.32 | 284.34 |
| 198 | 18.67 | 23.22 | 689 | 11.88 | 4.14 | 4.64 | 3.31 | 5.22 | .18 | .89 | 1.54 |
| | | | | 147.37 | 278.83 | 342.49 | 346.38 | 188.39 | 92.14 | 331.28 | 167.76 |
| 199 | 28.82 | 26.61 | 689 | 11.66 | 3.98 | 3.88 | 3.16 | 8.77 | .53 | 1.75 | 1.73 |
| | | | | 156.89 | 282.78 | 359.75 | 359.82 | 116.82 | 179.28 | 315.85 | 182.18 |

TABLE VI.- Continued

(a) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | 60.26 | 13.65 | 608 | 2.84 | 2.61 | 1.71 | 2.11 | 2.95 | .98 | 1.61 | .58 |
| | | | | 184.48 | 293.88 | 334.89 | 4.38 | 185.98 | 157.26 | 11.14 | 287.67 |
| 169 | 61.68 | 21.36 | 608 | 1.47 | 2.02 | 1.49 | 3.43 | 3.84 | 5.02 | 3.84 | 1.38 |
| | | | | 238.87 | 281.88 | 388.12 | 353.35 | 158.49 | 148.36 | 63.99 | 322.28 |
| 170 | 63.30 | 20.45 | 608 | 2.27 | 1.56 | 2.16 | 4.42 | 4.31 | 6.00 | 1.54 | 1.30 |
| | | | | 292.84 | 275.69 | 271.68 | 338.44 | 126.00 | 111.34 | 60.77 | 389.91 |
| 171 | 65.55 | 28.33 | 608 | 4.02 | 1.30 | 3.34 | 5.16 | 6.88 | 7.67 | 1.49 | 1.71 |
| | | | | 328.69 | 301.45 | 264.32 | 339.16 | 189.89 | 95.11 | 291.21 | 324.89 |
| 172 | 67.14 | 29.44 | 608 | 5.97 | 1.84 | 4.03 | 5.58 | 8.12 | 3.60 | 4.87 | 2.32 |
| | | | | 334.45 | 335.21 | 261.25 | 342.01 | 118.55 | 98.40 | 313.56 | 349.75 |
| 173 | 67.52 | 48.43 | 608 | 9.17 | 2.21 | 3.56 | 2.52 | 12.62 | 10.49 | 3.31 | 3.47 |
| | | | | 18.26 | 267.95 | 263.49 | 13.87 | 146.46 | 138.20 | 143.61 | 349.07 |
| 174 | 67.18 | 60.51 | 608 | 11.15 | 6.21 | 3.24 | 2.92 | 7.96 | 13.63 | 3.91 | 2.52 |
| | | | | 4.56 | 284.21 | 281.09 | 304.77 | 204.10 | 219.37 | 201.04 | 8.44 |
| 175 | 53.18 | 18.56 | 608 | 5.77 | 3.92 | 1.45 | 1.47 | 1.73 | 5.64 | .89 | .97 |
| | | | | 152.39 | 304.58 | 332.26 | 21.11 | 180.83 | 178.36 | 34.67 | 289.87 |
| 176 | 51.27 | 15.27 | 608 | 5.77 | 5.11 | 1.37 | .98 | 1.75 | 3.65 | .59 | .67 |
| | | | | 140.92 | 321.00 | 25.70 | 80.89 | 242.24 | 172.59 | 130.98 | 332.71 |
| 177 | 52.89 | 16.85 | 608 | 5.16 | 4.81 | .75 | .83 | 1.85 | 4.10 | .76 | .38 |
| | | | | 153.61 | 302.11 | 348.69 | 64.61 | 205.72 | 176.10 | 84.74 | 298.66 |
| 178 | 54.32 | 17.16 | 608 | 3.58 | 3.66 | 1.75 | 1.32 | 2.68 | 3.28 | .72 | .41 |
| | | | | 177.17 | 289.84 | 345.42 | 46.37 | 195.52 | 297.92 | 46.89 | 349.00 |
| 179 | 56.23 | 16.21 | 608 | 2.11 | 2.30 | 1.55 | 2.04 | 1.75 | 1.97 | 2.32 | 1.07 |
| | | | | 213.31 | 273.34 | 341.19 | 24.61 | 201.29 | 80.95 | 65.70 | 326.98 |
| 180 | 58.02 | 17.02 | 608 | 2.26 | 1.26 | 1.57 | 3.13 | .97 | 1.45 | 1.84 | 1.02 |
| | | | | 263.56 | 238.57 | 306.04 | 355.40 | 110.69 | 97.49 | 47.44 | 312.60 |
| 181 | 60.26 | 19.13 | 608 | 3.77 | 1.31 | 2.57 | 3.82 | 3.42 | 2.65 | 1.76 | .66 |
| | | | | 319.99 | 146.93 | 265.38 | 340.90 | 84.36 | 57.12 | 200.21 | 357.84 |
| 182 | 62.12 | 24.31 | 608 | 6.07 | 1.42 | 5.05 | 4.60 | 4.48 | 3.97 | 3.01 | .91 |
| | | | | 335.96 | 127.38 | 249.41 | 326.00 | 122.24 | 130.95 | 265.50 | 54.80 |
| 183 | 64.13 | 33.61 | 608 | 8.43 | 1.43 | 5.24 | 5.22 | 3.70 | 3.87 | 4.86 | 2.75 |
| | | | | 346.09 | 135.76 | 253.70 | 339.28 | 85.87 | 309.39 | 325.08 | 63.44 |
| 184 | 64.93 | 39.56 | 608 | 9.32 | 2.00 | 4.03 | 3.87 | 9.25 | 4.20 | 4.43 | .58 |
| | | | | 356.25 | 212.93 | 270.54 | 30.91 | 121.09 | 91.07 | 94.89 | 105.86 |
| 185 | 64.81 | 56.92 | 608 | 10.14 | 5.44 | 4.43 | 1.75 | 11.28 | 12.91 | 8.97 | .80 |
| | | | | 357.28 | 292.05 | 293.82 | 63.41 | 176.76 | 212.42 | 195.98 | 44.24 |
| 186 | 54.12 | 13.29 | 609 | 4.06 | 3.26 | 2.14 | 1.17 | 2.00 | 1.86 | .93 | .34 |
| | | | | 156.11 | 317.66 | 354.66 | 9.48 | 224.60 | 215.60 | 53.48 | 307.65 |
| 187 | 55.48 | 16.12 | 609 | 1.85 | 2.62 | 1.97 | 2.61 | 2.90 | 5.32 | 2.33 | .64 |
| | | | | 176.77 | 310.87 | 351.82 | 358.33 | 191.32 | 154.16 | 83.72 | 322.97 |
| 188 | 57.67 | 17.51 | 609 | .79 | 2.16 | 1.88 | 3.56 | 3.93 | 4.97 | 2.11 | .68 |
| | | | | 264.15 | 296.50 | 313.63 | 345.24 | 133.36 | 123.99 | 87.97 | 272.04 |
| 189 | 60.41 | 22.03 | 609 | 2.78 | 1.59 | 2.38 | 4.35 | 6.54 | 5.88 | .85 | 1.35 |
| | | | | 327.12 | 309.05 | 291.83 | .98 | 139.73 | 113.52 | 172.31 | 306.05 |
| 190 | 63.29 | 23.21 | 609 | 5.50 | 1.50 | 3.46 | 5.29 | 7.64 | 5.47 | 2.61 | 1.57 |
| | | | | 341.98 | 342.65 | 266.87 | 348.98 | 133.94 | 77.75 | 330.60 | 290.70 |
| 191 | 64.92 | 39.97 | 609 | 8.47 | 1.06 | 2.54 | 4.64 | 11.61 | 11.66 | 5.33 | 2.66 |
| | | | | .76 | 20.68 | 276.46 | 25.87 | 138.27 | 97.00 | 82.35 | 316.63 |
| 192 | 65.61 | 50.11 | 609 | 9.56 | 1.23 | 2.11 | 2.26 | 13.94 | 12.39 | 4.90 | 3.18 |
| | | | | 3.24 | 303.29 | 253.85 | 354.84 | 153.84 | 139.99 | 107.87 | 331.41 |
| 193 | 55.49 | 15.24 | 609 | 2.30 | 2.11 | 1.57 | 1.88 | 1.67 | 3.81 | 1.34 | .48 |
| | | | | 157.77 | 323.09 | 2.17 | 19.17 | 230.34 | 168.58 | 96.63 | 350.91 |
| 194 | 57.11 | 11.38 | 609 | .49 | 1.86 | 1.24 | 2.63 | 2.18 | 3.21 | 1.55 | .40 |
| | | | | 189.04 | 305.98 | 321.18 | 358.25 | 152.87 | 155.28 | 87.83 | 347.23 |
| 196 | 59.17 | 13.23 | 609 | 1.92 | 1.88 | 1.64 | 3.48 | 3.46 | 1.78 | .39 | .00 |
| | | | | 330.17 | 305.42 | 294.14 | 4.00 | 143.97 | 137.28 | 147.89 | 131.04 |
| 197 | 61.79 | 17.80 | 609 | 4.07 | 1.92 | 2.80 | 4.29 | 6.00 | 3.10 | 1.23 | .56 |
| | | | | 334.24 | 315.27 | 252.71 | 345.46 | 124.75 | 35.32 | 334.49 | 220.77 |
| 198 | 64.15 | 23.76 | 609 | 7.54 | 2.74 | 3.73 | 4.67 | 7.05 | 5.62 | 2.30 | .88 |
| | | | | 335.44 | 321.53 | 233.67 | 328.19 | 116.98 | 18.00 | 348.38 | 227.72 |
| 199 | 65.99 | 35.40 | 609 | 8.52 | 1.92 | 3.65 | 3.57 | 10.67 | 10.03 | 4.37 | 1.10 |
| | | | | 355.26 | 308.27 | 241.60 | 349.70 | 133.00 | 90.63 | 64.42 | 322.62 |

TABLE VI.- Continued

(a) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|----------------|---------------|----------------|----------------|----------------|----------------|---------------|---------------|--------------|
| RUN NO 34 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 168 | -2.61 | 1.68 | 688 | 1.84 183.81 | .12 184.56 | .13 188.83 | .15 175.23 | .22 281.71 | .12 112.11 | .83 142.18 | .89 93.98 | AMP PHASE |
| 169 | -2.74 | 2.89 | 688 | 1.38 98.32 | .16 53.15 | .21 128.46 | .26 169.48 | .27 198.32 | .18 115.47 | .89 118.85 | .14 81.48 | AMP PHASE |
| 170 | -2.94 | 2.73 | 688 | 1.61 78.78 | .28 28.56 | .27 126.17 | .39 163.96 | .35 176.96 | .83 62.57 | .13 181.25 | .17 69.64 | AMP PHASE |
| 171 | -3.88 | 3.32 | 688 | 2.85 72.92 | .48 11.23 | .48 135.93 | .54 167.89 | .41 188.38 | .18 349.69 | .22 88.89 | .21 94.36 | AMP PHASE |
| 172 | -3.35 | 5.83 | 688 | 2.77 59.95 | .98 37.21 | .98 163.11 | .98 213.27 | .48 277.89 | .52 18.13 | .36 112.36 | .21 123.43 | AMP PHASE |
| 173 | -4.88 | 7.18 | 688 | 3.78 43.76 | 1.48 47.28 | 1.16 194.88 | .67 256.67 | .12 115.28 | .54 277.48 | .54 334.68 | .48 96.73 | AMP PHASE |
| 174 | -4.98 | 18.89 | 688 | 4.45 31.23 | 1.55 34.85 | 1.42 229.48 | 1.55 279.34 | 1.19 292.87 | 1.66 331.91 | .84 35.95 | .27 215.88 | AMP PHASE |
| 175 | -2.45 | 1.28 | 688 | .87 116.94 | .15 153.74 | .89 126.86 | .88 148.58 | .11 199.76 | .87 183.86 | .89 13.82 | .86 184.94 | AMP PHASE |
| 176 | -2.19 | 1.21 | 688 | .78 139.53 | .16 189.28 | .17 173.22 | .89 115.18 | .18 246.69 | .11 128.85 | .14 12.32 | .85 154.73 | AMP PHASE |
| 177 | -2.19 | 1.18 | 688 | .69 119.45 | .21 184.78 | .18 156.73 | .11 99.38 | .11 289.48 | .85 168.81 | .11 26.61 | .82 98.29 | AMP PHASE |
| 178 | -2.61 | 1.39 | 688 | .84 183.47 | .18 182.68 | .14 189.45 | .14 188.31 | .88 236.61 | .84 63.71 | .84 3.77 | .84 48.32 | AMP PHASE |
| 179 | -2.77 | 1.69 | 688 | 1.85 94.65 | .12 161.33 | .25 118.48 | .17 131.36 | .15 215.96 | .82 118.94 | .88 348.22 | .88 61.46 | AMP PHASE |
| 180 | -3.81 | 2.85 | 688 | 1.28 83.19 | .87 98.29 | .38 185.98 | .27 127.58 | .24 163.21 | .85 344.66 | .18 357.33 | .18 18.84 | AMP PHASE |
| 181 | -3.21 | 2.63 | 688 | 1.58 78.95 | .17 58.86 | .49 118.86 | .46 133.91 | .38 181.68 | .21 356.51 | .22 44.28 | .89 52.89 | AMP PHASE |
| 182 | -3.27 | 3.49 | 688 | 2.82 74.44 | .32 45.86 | .64 118.61 | .31 135.78 | .89 38.93 | .45 45.25 | .38 94.34 | .84 193.27 | AMP PHASE |
| 183 | -3.72 | 6.51 | 688 | 2.68 53.41 | .72 54.82 | .88 175.89 | .77 273.88 | .81 19.25 | .83 74.45 | .45 141.43 | .24 236.95 | AMP PHASE |
| 184 | -4.13 | 7.29 | 688 | 3.34 43.21 | 1.88 51.44 | .82 283.45 | .55 291.48 | .88 115.86 | .79 192.29 | .51 278.59 | .23 6.42 | AMP PHASE |
| 185 | -4.88 | 18.54 | 688 | 4.32 38.56 | 1.59 42.11 | .93 216.57 | 1.38 285.84 | .81 263.51 | 1.53 316.84 | 1.84 13.82 | .25 198.23 | AMP PHASE |
| 186 | -2.67 | 1.39 | 689 | 1.88 112.86 | .86 59.22 | .13 196.15 | .89 152.84 | .86 194.16 | .85 111.82 | .83 48.52 | .83 72.55 | AMP PHASE |
| 187 | -2.89 | 1.63 | 689 | 1.24 94.88 | .12 2.41 | .22 177.79 | .21 174.71 | .12 289.14 | .84 122.72 | .84 187.89 | .84 67.86 | AMP PHASE |
| 188 | -3.88 | 1.88 | 689 | 1.58 81.23 | .21 353.71 | .28 168.18 | .33 165.17 | .16 184.11 | .86 51.39 | .87 81.62 | .11 45.66 | AMP PHASE |
| 189 | -3.28 | 2.42 | 689 | 1.85 78.24 | .32 7.49 | .36 166.81 | .45 181.76 | .33 288.75 | .14 7.23 | .18 123.87 | .16 92.88 | AMP PHASE |
| 190 | -3.41 | 2.97 | 689 | 2.39 69.87 | .57 17.43 | .54 157.98 | .54 176.22 | .28 228.42 | .28 19.68 | .13 128.96 | .13 83.84 | AMP PHASE |
| 191 | -3.64 | 5.61 | 689 | 2.97 61.57 | 1.88 35.63 | .79 195.75 | .68 264.86 | .24 6.44 | .34 285.23 | .34 263.82 | .31 59.95 | AMP PHASE |
| 192 | -4.89 | 6.28 | 689 | 3.43 46.98 | 1.48 33.75 | .99 213.16 | .83 275.66 | .48 385.67 | .63 318.36 | .31 2.41 | .32 95.95 | AMP PHASE |
| 193 | -2.84 | 1.48 | 689 | 1.15 187.14 | .11 21.98 | .13 282.57 | .11 181.62 | .86 226.51 | .81 181.88 | .81 36.99 | .84 188.52 | AMP PHASE |
| 194 | -3.84 | 1.65 | 689 | 1.36 98.26 | .18 357.57 | .17 182.74 | .17 172.79 | .85 185.26 | .82 113.91 | .84 186.82 | .84 29.51 | AMP PHASE |
| 196 | -3.25 | 1.98 | 689 | 1.64 83.87 | .26 357.87 | .23 185.68 | .24 179.32 | .13 165.52 | .83 321.78 | .86 128.88 | .88 29.38 | AMP PHASE |
| 197 | -3.46 | 2.43 | 689 | 2.81 72.24 | .42 358.72 | .29 165.11 | .29 151.58 | .21 146.66 | .86 278.88 | .86 138.66 | .88 4.57 | AMP PHASE |
| 198 | -3.58 | 2.86 | 689 | 2.49 65.83 | .66 88.88 | .31 142.81 | .28 123.13 | .22 118.88 | .86 222.98 | .86 173.89 | .87 3.89 | AMP PHASE |
| 199 | -3.66 | 4.29 | 689 | 2.73 68.88 | .96 21.67 | .48 173.78 | .23 148.88 | .52 143.53 | .62 244.91 | .29 389.98 | .18 49.72 | AMP PHASE |

TABLE VI.- Continued

(a) Concluded

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 34 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 168 | -2.59 | 4.41 | 608 | 3.36 | .26 | .38 | .27 | .85 | .37 | .89 | .28 AMP |
| 169 | -2.18 | 5.51 | 608 | 218.15 | 147.28 | 387.48 | 343.16 | 64.19 | 41.16 | 188.98 | 84.52 PHASE |
| 170 | -1.61 | 7.47 | 608 | 3.98 | .68 | .32 | .46 | .98 | .49 | .13 | .44 AMP |
| 171 | -1.26 | 9.51 | 608 | 211.72 | 198.58 | 347.87 | 345.58 | 55.99 | 36.82 | 155.26 | 76.32 PHASE |
| 172 | -.62 | 15.18 | 608 | 4.97 | 1.13 | .52 | .64 | 1.26 | .49 | .23 | .55 AMP |
| 173 | 1.26 | 24.66 | 608 | 211.63 | 191.98 | 2.65 | 342.33 | 37.41 | 28.67 | 118.78 | 63.11 PHASE |
| 174 | 3.81 | 38.86 | 608 | 6.33 | 1.68 | 1.13 | .71 | 1.45 | .36 | .44 | .68 AMP |
| 175 | -2.83 | 3.84 | 608 | 215.37 | 198.82 | 12.91 | 1.58 | 49.28 | 26.86 | 114.71 | 66.34 PHASE |
| 176 | -3.27 | 3.91 | 608 | 8.62 | 2.88 | 2.48 | 1.33 | 1.81 | .23 | .46 | .95 AMP |
| 177 | -3.63 | 4.11 | 608 | 212.31 | 289.87 | 13.58 | 42.88 | 81.77 | 189.87 | 148.26 | 55.44 PHASE |
| 178 | -3.82 | 4.83 | 608 | 13.33 | 2.32 | 4.14 | 1.11 | 3.81 | 2.68 | 2.43 | .46 AMP |
| 179 | -2.49 | 4.97 | 608 | 288.43 | 221.87 | 58.64 | 288.42 | .48 | 62.92 | 147.65 | 133.98 PHASE |
| 180 | -1.89 | 6.57 | 608 | 16.44 | 2.55 | 5.18 | .93 | 5.38 | 5.31 | 3.68 | .65 AMP |
| 181 | -1.24 | 8.67 | 608 | 285.89 | 184.49 | 79.38 | 158.92 | 71.65 | 137.65 | 194.72 | 143.83 PHASE |
| 182 | -.43 | 12.34 | 608 | 2.61 | .66 | .48 | .18 | .49 | .35 | .28 | .18 AMP |
| 183 | .87 | 28.48 | 608 | 215.28 | 68.27 | 287.23 | 188.32 | 59.93 | 19.96 | 322.39 | 72.89 PHASE |
| 184 | 1.99 | 26.86 | 608 | 2.84 | 1.11 | .73 | .26 | .35 | .38 | .24 | .89 AMP |
| 185 | 3.74 | 32.68 | 608 | 213.63 | 64.91 | 288.81 | 283.88 | 188.73 | 61.96 | 348.83 | 122.28 PHASE |
| 186 | -1.78 | 3.96 | 609 | 2.41 | 1.16 | .77 | .28 | .27 | .22 | .17 | .88 AMP |
| 187 | -1.35 | 4.83 | 609 | 211.88 | 55.43 | 288.41 | 235.48 | 152.82 | 88.23 | 357.69 | 78.64 PHASE |
| 188 | -.95 | 5.98 | 609 | 3.15 | .78 | .81 | .34 | .35 | .11 | .87 | .13 AMP |
| 189 | -.59 | 7.55 | 609 | 288.89 | 59.16 | 298.27 | 258.93 | 182.27 | 96.53 | 343.19 | 67.18 PHASE |
| 190 | -.27 | 18.82 | 609 | 3.85 | .23 | .86 | .36 | .55 | .19 | .14 | .14 AMP |
| 191 | .69 | 17.32 | 609 | 213.88 | 52.68 | 384.25 | 319.37 | 78.74 | 44.83 | 286.58 | 81.15 PHASE |
| 192 | 1.52 | 21.11 | 609 | 4.78 | .44 | .79 | .46 | .77 | .22 | .89 | .16 AMP |
| 193 | -1.18 | 3.84 | 609 | 212.14 | 239.83 | 382.43 | 327.21 | 32.77 | 356.37 | 274.21 | 334.86 PHASE |
| 194 | -.67 | 5.87 | 609 | 5.77 | 1.36 | 1.86 | .68 | .88 | .86 | .16 | .29 AMP |
| 195 | -.27 | 6.26 | 609 | 287.39 | 249.39 | 328.83 | 355.73 | 56.97 | 2.22 | 1.21 | 347.29 PHASE |
| 196 | -.83 | 7.88 | 609 | 7.99 | 1.77 | 1.54 | .45 | .44 | .68 | .47 | .55 AMP |
| 197 | .88 | 9.98 | 609 | 287.57 | 244.36 | 12.65 | 187.71 | 51.91 | 351.15 | 38.43 | 349.15 PHASE |
| 198 | .56 | 16.61 | 609 | 11.84 | 1.92 | 3.22 | 1.87 | .52 | 1.36 | .71 | .11 AMP |
| 199 | | | | 283.94 | 245.91 | 36.84 | 132.14 | 195.21 | 289.79 | 328.84 | 348.93 PHASE |
| | | | | 13.54 | 1.43 | 4.84 | 2.75 | 3.19 | 3.24 | 2.83 | .24 AMP |
| | | | | 284.15 | 242.48 | 62.37 | 181.76 | 333.87 | 21.77 | 89.53 | 225.81 PHASE |
| | | | | 15.58 | 2.28 | 4.59 | 1.92 | 5.77 | 5.38 | 4.48 | 2.86 AMP |
| | | | | 283.19 | 197.38 | 98.69 | 288.51 | 48.75 | 118.22 | 191.33 | 246.48 PHASE |
| | | | | 3.15 | .78 | .29 | .11 | .44 | .23 | .87 | .19 AMP |
| | | | | 229.88 | 123.24 | 35.31 | 268.43 | 79.39 | 25.89 | 48.74 | 63.97 PHASE |
| | | | | 3.62 | .84 | .55 | .27 | .66 | .43 | .86 | .21 AMP |
| | | | | 228.86 | 143.33 | 43.79 | 333.41 | 74.42 | 39.24 | 127.82 | 67.92 PHASE |
| | | | | 4.42 | 1.82 | .68 | .41 | .88 | .51 | .83 | .38 AMP |
| | | | | 219.75 | 157.36 | 38.54 | 336.79 | 56.28 | 17.45 | 159.88 | 38.59 PHASE |
| | | | | 5.45 | 1.28 | 1.82 | .68 | 1.34 | .47 | .17 | .51 AMP |
| | | | | 221.97 | 178.36 | 32.28 | 354.88 | 78.66 | 39.87 | 176.48 | 76.21 PHASE |
| | | | | 7.28 | 2.16 | 1.77 | .78 | 1.45 | .49 | .35 | .69 AMP |
| | | | | 219.59 | 198.86 | 28.88 | 352.41 | 78.33 | 39.71 | 187.21 | 62.23 PHASE |
| | | | | 18.62 | 2.54 | 3.23 | .71 | .59 | 1.26 | 1.31 | 1.87 AMP |
| | | | | 219.72 | 217.77 | 58.48 | 288.54 | 42.41 | 49.63 | 148.71 | 114.89 PHASE |
| | | | | 12.98 | 2.51 | 3.97 | .83 | 2.39 | 2.23 | 2.11 | 1.86 AMP |
| | | | | 215.73 | 289.99 | 56.67 | 244.61 | 47.48 | 85.69 | 161.86 | 93.59 PHASE |
| | | | | 3.83 | .65 | .39 | .12 | .45 | .14 | .88 | .14 AMP |
| | | | | 221.41 | 145.73 | 42.89 | 338.71 | 96.87 | 48.86 | 253.42 | 97.38 PHASE |
| | | | | 3.84 | .88 | .55 | .28 | .49 | .25 | .86 | .18 AMP |
| | | | | 221.64 | 153.43 | 48.15 | 351.95 | 62.46 | 18.35 | 251.39 | 41.68 PHASE |
| | | | | 4.83 | 1.18 | .75 | .23 | .75 | .28 | .81 | .19 AMP |
| | | | | 224.25 | 166.48 | 46.81 | 348.43 | 64.73 | 18.17 | 172.53 | 25.88 PHASE |
| | | | | 5.99 | 1.65 | 1.18 | .41 | .99 | .44 | .26 | .34 AMP |
| | | | | 219.63 | 168.68 | 26.58 | 288.17 | 37.14 | 2.47 | 167.31 | 11.14 PHASE |
| | | | | 7.84 | 2.43 | 1.61 | .78 | 1.85 | .58 | .42 | .42 AMP |
| | | | | 216.88 | 168.48 | 17.73 | 252.39 | 18.68 | 2.97 | 141.67 | 356.48 PHASE |
| | | | | 9.95 | 2.88 | 2.15 | 1.66 | 2.55 | 1.48 | 1.13 | .43 AMP |
| | | | | 217.61 | 179.36 | 47.17 | 255.33 | 6.32 | 38.57 | 136.36 | 28.83 PHASE |

TABLE VI.- Continued

(b) $\mu = 0.30$; $M_T = 0.62$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CW/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 203 | -.3 | 2.5 | -.4 | .03210 | .00111 | .00136 |
| 204 | -.9 | 3.5 | 1.6 | .04756 | .00086 | .00162 |
| 205 | -1.2 | 4.5 | 3.6 | .06398 | .00071 | .00203 |
| 207 | -1.4 | 5.2 | 5.6 | .08095 | .00089 | .00259 |
| 208 | -2.3 | 6.3 | 7.6 | .09383 | .00004 | .00362 |
| 209 | -3.1 | 7.6 | 9.6 | .10588 | -.00143 | .00508 |
| 210 | -3.7 | 8.7 | 11.6 | .11199 | -.00259 | .00716 |
| 211 | .0 | 4.7 | 3.6 | .04054 | -.00266 | .00276 |
| 212 | -.6 | 5.7 | 5.6 | .05565 | -.00443 | .00367 |
| 213 | -1.1 | 6.8 | 7.6 | .07005 | -.00634 | .00460 |
| 214 | -1.9 | 7.9 | 9.6 | .08458 | -.00851 | .00582 |
| 215 | -2.4 | 8.8 | 11.6 | .09735 | -.01015 | .00737 |
| 216 | -2.8 | 9.3 | 12.6 | .10256 | -.01126 | .00838 |
| 217 | -3.0 | 10.0 | 13.6 | .10439 | -.01193 | .00952 |
| 218 | .1 | 5.2 | 5.6 | .03483 | -.00537 | .00349 |
| 219 | -.6 | 6.1 | 7.6 | .05080 | -.00858 | .00479 |
| 220 | -1.3 | 7.0 | 9.6 | .06533 | -.01147 | .00618 |
| 221 | -1.9 | 8.1 | 11.6 | .07957 | -.01465 | .00772 |
| 222 | -2.2 | 8.6 | 12.6 | .08637 | -.01600 | .00860 |
| 223 | -2.4 | 8.7 | 13.6 | .09434 | -.01687 | .00953 |

TABLE VI.- Continued

(b) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 283 | 46.54 | 19.78 | 588 | 8.87 | 9.38 | 3.89 | 2.72 | 2.93 | 1.64 | 1.78 | .29 AMP |
| 284 | 48.63 | 17.67 | 588 | 145.83 | 344.28 | 116.28 | 69.57 | 61.85 | 337.84 | 265.19 | 41.55 PHASE |
| 285 | 58.83 | 17.64 | 588 | 8.67 | 8.88 | 3.81 | 2.52 | 3.62 | 1.56 | 1.51 | .35 AMP |
| 287 | 52.98 | 18.31 | 588 | 148.73 | 338.88 | 182.89 | 67.63 | 31.99 | 311.91 | 247.72 | 252.71 PHASE |
| 288 | 54.77 | 19.83 | 588 | 8.49 | 8.64 | 2.64 | 2.46 | 3.58 | 1.38 | 1.53 | .58 AMP |
| 289 | 56.46 | 26.84 | 588 | 139.54 | 341.98 | 98.63 | 88.24 | 31.78 | 383.86 | 268.22 | 257.14 PHASE |
| 210 | 57.35 | 33.58 | 588 | 8.35 | 8.38 | 2.21 | 2.78 | 4.19 | 1.52 | 1.55 | 1.32 AMP |
| 211 | 49.17 | 16.78 | 588 | 131.85 | 342.36 | 93.88 | 85.61 | 28.95 | 284.18 | 266.95 | 288.48 PHASE |
| 212 | 51.58 | 16.43 | 588 | 7.99 | 8.58 | 1.72 | 2.59 | 3.51 | 1.73 | 1.56 | 2.22 AMP |
| 213 | 53.65 | 15.84 | 588 | 117.84 | 339.72 | 89.36 | 78.89 | 354.48 | 248.19 | 235.25 | 152.84 PHASE |
| 214 | 55.77 | 16.83 | 588 | 8.26 | 9.41 | 1.88 | 2.52 | 3.27 | 2.45 | 2.33 | 3.17 AMP |
| 215 | 57.74 | 28.44 | 588 | 183.42 | 349.54 | 128.88 | 72.86 | 332.91 | 255.87 | 257.55 | 193.98 PHASE |
| 216 | 58.53 | 24.74 | 588 | 9.89 | 11.86 | 3.88 | 2.82 | 5.67 | 3.88 | 1.96 | 3.88 AMP |
| 217 | 58.98 | 28.26 | 588 | 82.34 | 347.83 | 258.65 | 88.77 | 329.24 | 316.58 | 338.58 | 229.88 PHASE |
| 218 | 49.78 | 14.33 | 588 | 8.19 | 8.77 | 2.93 | 2.93 | 1.89 | .49 | .94 | .24 AMP |
| 219 | 52.14 | 14.89 | 588 | 139.69 | 339.98 | 188.28 | 33.79 | 28.76 | 282.92 | 218.91 | 338.53 PHASE |
| 220 | 54.48 | 15.91 | 588 | 7.78 | 8.98 | 2.37 | 2.44 | 1.38 | .55 | 1.89 | .12 AMP |
| 221 | 56.65 | 17.31 | 588 | 134.67 | 348.62 | 93.86 | 32.21 | 11.53 | 266.14 | 283.84 | 332.66 PHASE |
| 222 | 57.82 | 17.86 | 588 | 7.52 | 9.11 | 1.71 | 2.21 | 1.57 | .51 | 1.87 | .16 AMP |
| 223 | 59.85 | 28.44 | 588 | 127.83 | 344.73 | 94.95 | 35.19 | 7.82 | 244.88 | 282.57 | 19.67 PHASE |
| | | | | 7.89 | 9.45 | 1.17 | 1.78 | 1.65 | .69 | 1.18 | .15 AMP |
| | | | | 114.67 | 347.37 | 99.81 | 36.54 | 8.49 | 223.39 | 193.39 | 114.85 PHASE |
| | | | | 7.48 | 18.41 | .88 | 1.78 | .21 | 1.61 | 2.81 | .48 AMP |
| | | | | 95.65 | 352.81 | 144.82 | 31.87 | 268.48 | 226.87 | 226.88 | 145.58 PHASE |
| | | | | 8.26 | 11.13 | 1.25 | 2.48 | 1.92 | 2.59 | 1.54 | .98 AMP |
| | | | | 86.28 | 354.62 | 196.36 | 35.77 | 386.62 | 278.56 | 277.23 | 235.84 PHASE |
| | | | | 9.54 | 12.17 | 2.13 | 3.29 | 3.88 | 3.82 | 1.28 | 1.55 AMP |
| | | | | 74.61 | 349.98 | 219.22 | 43.93 | 326.48 | 312.71 | 329.82 | 254.63 PHASE |
| | | | | 6.97 | 7.16 | 1.59 | 2.49 | 1.71 | .29 | .44 | .43 AMP |
| | | | | 141.23 | 352.58 | 182.96 | 41.61 | 22.46 | 387.96 | 244.18 | 387.91 PHASE |
| | | | | 6.78 | 7.37 | 1.87 | 2.34 | 2.19 | .35 | .45 | .37 AMP |
| | | | | 131.69 | 351.53 | 82.93 | 33.73 | 11.52 | 238.92 | 219.81 | 273.28 PHASE |
| | | | | 6.55 | 7.93 | .54 | 2.18 | .58 | .35 | .35 | .42 AMP |
| | | | | 128.26 | 352.78 | 68.78 | 25.29 | 12.68 | 225.82 | 287.26 | 261.35 PHASE |
| | | | | 6.67 | 8.88 | .41 | 2.84 | 1.91 | .65 | .65 | .35 AMP |
| | | | | 184.17 | 352.38 | 314.93 | 17.12 | 3.74 | 221.66 | 193.66 | 229.77 PHASE |
| | | | | 6.98 | 9.28 | .64 | 1.87 | 1.78 | .67 | .64 | .35 AMP |
| | | | | 92.65 | 346.84 | 279.48 | 2.82 | 343.25 | 198.96 | 177.87 | 194.82 PHASE |
| | | | | 7.76 | 9.98 | .81 | 1.98 | 1.28 | 1.28 | 1.36 | .89 AMP |
| | | | | 88.45 | 349.43 | 239.28 | 358.76 | 295.28 | 282.43 | 211.75 | 182.42 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 283 | 54.23 | 33.64 | 588 | 13.57 | 4.85 | 7.17 | 4.13 | 5.78 | 9.54 | 1.18 | .99 AMP |
| 284 | 52.83 | 46.87 | 588 | 279.32 | 164.76 | 288.45 | 135.25 | 317.45 | 319.84 | 156.72 | 83.68 PHASE |
| 285 | 49.61 | 54.85 | 588 | 26.87 | 7.83 | 9.85 | 2.81 | 7.49 | 4.82 | 1.92 | .92 AMP |
| 287 | 46.58 | 75.22 | 588 | 294.67 | 172.89 | 288.11 | 74.81 | 297.42 | 343.82 | 61.51 | 26.19 PHASE |
| 288 | 45.28 | 93.87 | 588 | 42.97 | 18.52 | 18.38 | 4.63 | 8.38 | 4.52 | 2.84 | 1.88 AMP |
| 289 | 44.95 | 115.34 | 588 | 321.38 | 174.53 | 268.94 | 56.99 | 315.58 | 299.66 | 114.88 | 59.68 PHASE |
| 210 | 49.82 | 155.39 | 588 | 61.53 | 11.82 | 15.48 | 6.22 | 6.39 | 5.24 | 2.11 | 1.45 AMP |
| 211 | 48.18 | 48.23 | 588 | 339.27 | 176.27 | 252.92 | 66.88 | 312.97 | 341.28 | 333.49 | 36.88 PHASE |
| 212 | 48.27 | 58.62 | 588 | 76.12 | 9.98 | 19.34 | 7.85 | 4.88 | 5.86 | 5.69 | 2.85 AMP |
| 213 | 48.51 | 83.88 | 588 | 341.43 | 185.51 | 249.84 | 49.48 | 296.86 | 348.81 | 318.64 | 352.38 PHASE |
| 214 | 48.53 | 185.79 | 588 | 93.86 | 11.83 | 25.18 | 8.75 | 1.28 | 7.27 | 4.38 | 2.53 AMP |
| 215 | 48.91 | 132.33 | 588 | 351.58 | 289.88 | 265.66 | 49.31 | 284.25 | 34.99 | 347.69 | 38.22 PHASE |
| 216 | 58.68 | 141.64 | 588 | 118.88 | 23.19 | 38.97 | 6.56 | 17.73 | 15.22 | 13.37 | 2.49 AMP |
| 217 | 53.98 | 167.28 | 588 | 2.82 | 221.53 | 265.62 | 69.17 | 219.38 | 286.57 | 181.21 | 33.87 PHASE |
| 218 | 48.41 | 37.58 | 588 | 24.28 | 11.67 | 8.58 | 3.48 | 4.37 | 4.72 | 1.12 | .33 AMP |
| 219 | 49.62 | 63.92 | 588 | 385.89 | 188.84 | 283.49 | 351.78 | 291.91 | 199.53 | 128.84 | 34.79 PHASE |
| 220 | 58.95 | 89.75 | 588 | 41.83 | 13.36 | 18.69 | 5.41 | 4.65 | 5.92 | .98 | .59 AMP |
| 221 | 51.86 | 116.14 | 588 | 325.88 | 191.34 | 257.55 | 12.51 | 312.18 | 258.51 | 288.47 | 67.81 PHASE |
| 222 | 52.26 | 128.47 | 588 | 61.88 | 13.76 | 15.52 | 6.76 | 3.62 | 7.15 | 2.55 | .34 AMP |
| 223 | 53.22 | 158.95 | 588 | 336.43 | 286.84 | 254.78 | 27.25 | 383.47 | 291.16 | 288.49 | 65.58 PHASE |
| | | | | 82.31 | 14.29 | 19.55 | 6.86 | 3.88 | 7.46 | 3.88 | .86 AMP |
| | | | | 341.48 | 222.58 | 256.48 | 33.15 | 269.57 | 311.72 | 299.23 | 311.48 PHASE |
| | | | | 186.18 | 19.21 | 25.99 | 8.24 | 3.19 | 9.79 | 3.43 | .68 AMP |
| | | | | 351.86 | 235.71 | 273.13 | 46.29 | 215.99 | 5.82 | 28.83 | 332.32 PHASE |
| | | | | 115.63 | 24.52 | 28.84 | 6.72 | 9.33 | 7.35 | 5.67 | 1.88 AMP |
| | | | | 358.66 | 239.14 | 282.79 | 65.17 | 282.52 | 97.83 | 127.65 | 65.44 PHASE |
| | | | | 126.88 | 34.45 | 28.47 | 5.81 | 16.42 | 13.82 | 12.89 | 2.88 AMP |
| | | | | 1.74 | 236.37 | 281.44 | 76.78 | 287.63 | 175.37 | 154.99 | 95.55 PHASE |
| | | | | 21.21 | 11.66 | 5.45 | 4.67 | 2.81 | 6.31 | 1.38 | .27 AMP |
| | | | | 325.75 | 283.65 | 284.85 | 12.58 | 278.73 | 257.18 | 148.32 | 116.56 PHASE |
| | | | | 41.48 | 13.73 | 9.93 | 6.38 | 2.53 | 7.75 | .43 | .38 AMP |
| | | | | 348.54 | 212.13 | 247.91 | 26.94 | 244.35 | 293.25 | 188.96 | 137.23 PHASE |
| | | | | 63.27 | 15.63 | 15.68 | 7.14 | 3.47 | 8.28 | .87 | .85 AMP |
| | | | | 347.32 | 223.83 | 246.59 | 38.96 | 226.35 | 318.59 | 297.43 | 278.85 PHASE |
| | | | | 89.26 | 18.98 | 28.82 | 7.37 | 5.43 | 8.38 | 1.58 | .38 AMP |
| | | | | 358.46 | 233.94 | 248.88 | 27.58 | 214.77 | 334.84 | 317.47 | 311.91 PHASE |
| | | | | 182.26 | 21.88 | 21.68 | 7.42 | 6.49 | 7.66 | 2.81 | .43 AMP |
| | | | | 349.33 | 232.34 | 241.71 | 12.48 | 195.92 | 323.92 | 322.87 | 287.34 PHASE |
| | | | | 128.89 | 25.84 | 24.36 | 7.38 | 6.94 | 8.49 | 3.88 | .98 AMP |
| | | | | 356.85 | 235.28 | 254.18 | 16.95 | 184.51 | 12.46 | 5.41 | 1.81 PHASE |

TABLE VI.- Continued

(b) Continued

| TORSION 20 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | 5.64 | 4.52 | 580 | 1.68 | 1.78 | .79 | .81 | .25 | .84 | .19 | .28 |
| | | | | 47.38 | 299.83 | 154.93 | 61.32 | 298.51 | 24.48 | 252.61 | 282.16 |
| 204 | 4.97 | 4.24 | 580 | 2.85 | 1.88 | .66 | .54 | .47 | .23 | .11 | .19 |
| | | | | 49.44 | 388.98 | 143.44 | 58.75 | 278.78 | 239.31 | 227.65 | 184.79 |
| 205 | 4.84 | 4.48 | 580 | 2.76 | 1.53 | .63 | .35 | .27 | .21 | .17 | .22 |
| | | | | 47.82 | 315.21 | 188.73 | 22.58 | 288.88 | 235.14 | 217.39 | 185.35 |
| 207 | 2.79 | 6.82 | 580 | 4.19 | .95 | 1.86 | .69 | .25 | .26 | .24 | .29 |
| | | | | 41.69 | 328.73 | 231.94 | 356.28 | 297.51 | 229.52 | 228.44 | 214.24 |
| 208 | 1.52 | 8.66 | 580 | 5.99 | .71 | 1.94 | .88 | .52 | .41 | .16 | .28 |
| | | | | 35.23 | 359.18 | 237.73 | 355.46 | 249.35 | 256.39 | 287.77 | 197.68 |
| 209 | -1.48 | 13.98 | 580 | 9.34 | 1.24 | 2.94 | 1.35 | 1.94 | 1.49 | 1.86 | .62 |
| | | | | 33.76 | 65.99 | 249.36 | 65.86 | 218.51 | 257.48 | 285.78 | 315.88 |
| 210 | -3.64 | 29.63 | 580 | 14.27 | 1.78 | 5.65 | .86 | 8.22 | 6.83 | 3.69 | 2.53 |
| | | | | 27.73 | 14.25 | 281.67 | 249.53 | 263.48 | 316.32 | 345.67 | 13.14 |
| 211 | 3.99 | 4.46 | 580 | 2.89 | 2.12 | .85 | .19 | .21 | .17 | .84 | .89 |
| | | | | 59.77 | 315.33 | 218.93 | 32.87 | 358.75 | 153.15 | 124.24 | 138.97 |
| 212 | 3.32 | 5.39 | 580 | 2.78 | 2.38 | 1.18 | .13 | .19 | .12 | .86 | .11 |
| | | | | 54.69 | 319.53 | 228.27 | 356.99 | 318.45 | 178.41 | 185.56 | 126.58 |
| 213 | 2.59 | 6.58 | 580 | 3.55 | 2.61 | 1.68 | .22 | .23 | .29 | .16 | .89 |
| | | | | 49.96 | 326.79 | 233.79 | 352.37 | 325.92 | 198.78 | 249.14 | 134.91 |
| 214 | 1.77 | 7.58 | 580 | 4.79 | 2.78 | 2.42 | .58 | .36 | .37 | .18 | .84 |
| | | | | 44.37 | 338.62 | 237.42 | 359.22 | 334.47 | 281.24 | 255.44 | 198.47 |
| 215 | .15 | 13.64 | 580 | 8.16 | 2.13 | 3.74 | 1.54 | 1.27 | 1.38 | .57 | .26 |
| | | | | 39.26 | 353.21 | 245.85 | 63.78 | 167.79 | 243.26 | 295.85 | 275.72 |
| 216 | -1.13 | 17.82 | 580 | 18.68 | 2.13 | 4.33 | 2.19 | 3.84 | 3.88 | 1.57 | 1.89 |
| | | | | 37.82 | .24 | 253.26 | 117.79 | 219.45 | 275.46 | 328.21 | 342.37 |
| 217 | -2.78 | 23.93 | 580 | 13.21 | 2.47 | 5.95 | 1.71 | 6.75 | 5.28 | 2.74 | 1.78 |
| | | | | 33.49 | 346.62 | 259.75 | 151.38 | 242.73 | 294.64 | 334.74 | 359.35 |
| 218 | 3.53 | 4.33 | 580 | 1.88 | 2.88 | 1.81 | .26 | .18 | .18 | .87 | .87 |
| | | | | 62.64 | 327.78 | 247.31 | 68.18 | 323.49 | 183.29 | 169.77 | 147.12 |
| 219 | 2.91 | 5.35 | 580 | 2.54 | 2.21 | 1.26 | .26 | .33 | .28 | .87 | .88 |
| | | | | 56.83 | 328.98 | 248.68 | 52.52 | 277.26 | 185.88 | 242.77 | 158.64 |
| 220 | 2.29 | 6.45 | 580 | 3.32 | 2.57 | 1.58 | .35 | .41 | .37 | .17 | .85 |
| | | | | 58.98 | 338.97 | 258.37 | 46.48 | 261.36 | 288.95 | 286.97 | 163.54 |
| 221 | 1.67 | 7.75 | 580 | 4.39 | 3.84 | 2.12 | .53 | .43 | .47 | .28 | .84 |
| | | | | 46.42 | 329.26 | 246.84 | 46.36 | 238.14 | 215.28 | 277.39 | 282.75 |
| 222 | 1.36 | 8.57 | 580 | 5.15 | 3.22 | 2.61 | .65 | .43 | .55 | .24 | .83 |
| | | | | 41.98 | 323.75 | 238.22 | 33.36 | 198.22 | 198.13 | 268.39 | 171.18 |
| 223 | .52 | 12.29 | 580 | 7.41 | 2.87 | 3.43 | 1.44 | 1.28 | 1.83 | .44 | .25 |
| | | | | 38.48 | 334.14 | 248.98 | 52.87 | 158.43 | 199.93 | 256.81 | 248.49 |

TABLE VI.- Continued

(b) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | 31.35 | 22.66 | 580 | 13.62 | 11.65 | 4.49 | 1.88 | 2.82 | .68 | .28 | .27 AMP |
| 204 | 33.39 | 22.48 | 580 | 142.89 | 349.23 | 183.85 | 76.43 | 64.54 | 329.62 | 244.77 | 203.30 PHASE |
| 205 | 35.49 | 22.89 | 580 | 14.15 | 18.86 | 3.71 | 1.79 | 2.49 | .58 | .36 | .17 AMP |
| 207 | 37.44 | 23.28 | 580 | 139.46 | 343.37 | 85.54 | 76.25 | 37.44 | 292.16 | 216.98 | 177.91 PHASE |
| 208 | 39.37 | 23.88 | 580 | 14.73 | 18.37 | 3.48 | 2.88 | 2.33 | .52 | .44 | .87 AMP |
| 209 | 41.33 | 24.54 | 580 | 139.64 | 344.77 | 78.96 | 95.99 | 34.38 | 298.13 | 218.99 | 196.71 PHASE |
| 210 | 42.85 | 29.45 | 580 | 15.39 | 9.94 | 3.39 | 2.36 | 2.83 | .46 | .45 | .16 AMP |
| 211 | 35.88 | 21.97 | 580 | 136.25 | 342.77 | 72.61 | 181.53 | 23.28 | 286.51 | 218.81 | 16.86 PHASE |
| 212 | 37.52 | 21.98 | 580 | 15.41 | 18.13 | 3.13 | 2.35 | 2.45 | .49 | .45 | .38 AMP |
| 213 | 39.74 | 22.14 | 580 | 138.81 | 337.55 | 65.24 | 97.89 | 356.42 | 232.76 | 196.72 | 336.57 PHASE |
| 214 | 42.88 | 21.97 | 580 | 15.46 | 11.22 | 2.78 | 2.83 | 2.44 | .71 | .48 | .44 AMP |
| 215 | 43.97 | 22.65 | 580 | 128.38 | 344.52 | 78.34 | 98.47 | 338.36 | 227.64 | 283.84 | 31.43 PHASE |
| 216 | 45.86 | 25.91 | 580 | 15.23 | 15.21 | .49 | 2.52 | 4.22 | .58 | .67 | .58 AMP |
| 217 | 45.68 | 28.65 | 580 | 122.14 | 342.11 | 178.77 | 186.84 | 341.88 | 328.88 | 171.13 | 86.81 PHASE |
| 218 | 36.63 | 18.16 | 580 | 12.74 | 11.25 | 4.13 | 1.96 | .71 | .29 | .25 | .28 AMP |
| 219 | 39.81 | 18.77 | 580 | 137.87 | 343.61 | 87.55 | 41.84 | 9.28 | 271.86 | 285.78 | 182.59 PHASE |
| 220 | 41.38 | 19.44 | 580 | 13.39 | 11.12 | 3.71 | 1.72 | 1.81 | .29 | .32 | .14 AMP |
| 221 | 43.87 | 28.68 | 580 | 135.68 | 342.66 | 79.69 | 42.78 | 353.24 | 258.35 | 287.75 | 156.87 PHASE |
| 222 | 45.17 | 21.11 | 580 | 13.82 | 11.28 | 3.32 | 1.55 | 1.16 | .32 | .36 | .28 AMP |
| 223 | 45.44 | 22.88 | 580 | 134.39 | 345.48 | 88.86 | 51.95 | 345.45 | 247.83 | 225.63 | 152.81 PHASE |
| | | | | 14.88 | 11.28 | 2.91 | 1.21 | 1.13 | .32 | .31 | .13 AMP |
| | | | | 131.87 | 346.32 | 88.89 | 61.72 | 339.62 | 289.69 | 244.58 | 154.75 PHASE |
| | | | | 14.11 | 11.93 | 3.88 | 1.83 | .87 | .55 | .18 | .12 AMP |
| | | | | 125.72 | 358.12 | 182.17 | 53.87 | 289.62 | 218.89 | 319.95 | 133.47 PHASE |
| | | | | 14.82 | 13.89 | 2.74 | 1.53 | 2.81 | .78 | .88 | .21 AMP |
| | | | | 124.97 | 351.13 | 116.12 | 47.51 | 313.98 | 278.88 | 138.85 | 119.32 PHASE |
| | | | | 13.86 | 14.74 | 2.98 | 2.42 | 2.59 | .82 | .37 | .29 AMP |
| | | | | 119.77 | 346.56 | 129.83 | 56.78 | 326.82 | 328.51 | 166.28 | 142.82 PHASE |
| | | | | 11.83 | 9.11 | 2.93 | 1.51 | 1.36 | .21 | .21 | .14 AMP |
| | | | | 138.99 | 351.21 | 98.58 | 44.32 | 15.11 | 277.27 | 219.48 | 166.93 PHASE |
| | | | | 11.73 | 9.26 | 2.82 | 1.45 | 1.72 | .27 | .25 | .17 AMP |
| | | | | 136.47 | 353.68 | 74.67 | 37.59 | 348.59 | 231.97 | 169.83 | 169.83 PHASE |
| | | | | 12.23 | 9.88 | 2.28 | 1.28 | 1.63 | .29 | .28 | .15 AMP |
| | | | | 134.96 | 354.88 | 66.79 | 33.73 | .81 | 227.17 | 246.45 | 131.69 PHASE |
| | | | | 12.78 | 18.66 | 2.87 | .95 | 1.58 | .32 | .24 | .12 AMP |
| | | | | 132.35 | 351.59 | 57.69 | 25.84 | 358.39 | 214.93 | 263.47 | 122.45 PHASE |
| | | | | 12.85 | 11.17 | 2.83 | .88 | 1.52 | .35 | .25 | .11 AMP |
| | | | | 128.22 | 345.71 | 51.89 | 8.95 | 329.85 | 194.14 | 261.81 | 91.78 PHASE |
| | | | | 13.84 | 11.74 | 1.87 | .94 | 1.48 | .48 | .89 | .12 AMP |
| | | | | 126.44 | 347.29 | 81.83 | 348.37 | 298.16 | 211.41 | 293.67 | 47.62 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 283 | 39.27 | 34.84 | 580 | 12.36 | 4.28 | 4.95 | 3.57 | 6.49 | 13.65 | 1.36 | .77 AMP |
| 284 | 36.69 | 42.36 | 580 | 276.79 | 145.25 | 292.62 | 125.63 | 321.94 | 328.22 | 134.39 | 66.76 PHASE |
| 285 | 33.94 | 48.81 | 580 | 28.81 | 6.17 | 7.62 | 2.67 | 7.91 | 7.81 | 4.28 | .77 AMP |
| 287 | 38.39 | 57.28 | 580 | 291.37 | 159.58 | 287.28 | 74.47 | 381.95 | 346.79 | 61.18 | 329.68 PHASE |
| 288 | 28.19 | 67.99 | 580 | 32.58 | 8.86 | 9.32 | 5.66 | 9.41 | 6.58 | 4.96 | 2.23 AMP |
| 289 | 26.57 | 86.75 | 580 | 317.84 | 164.31 | 274.88 | 62.59 | 315.77 | 316.42 | 115.31 | 38.47 PHASE |
| 290 | 29.46 | 138.48 | 580 | 45.93 | 18.48 | 12.18 | 7.81 | 8.75 | 8.26 | 2.82 | 2.48 AMP |
| 291 | 32.11 | 33.27 | 580 | 335.19 | 166.93 | 267.54 | 71.79 | 317.88 | 352.76 | 385.97 | 17.57 PHASE |
| 292 | 31.72 | 47.76 | 580 | 56.85 | 18.18 | 15.38 | 8.57 | 7.98 | 9.81 | 8.11 | 3.48 AMP |
| 293 | 38.37 | 77.53 | 580 | 337.78 | 171.88 | 263.25 | 53.74 | 384.39 | 355.76 | 388.61 | 339.82 PHASE |
| 294 | 32.89 | 67.87 | 580 | 69.88 | 13.84 | 21.28 | 18.86 | 2.69 | 11.28 | 5.93 | 4.13 AMP |
| 295 | 32.52 | 92.65 | 580 | 348.35 | 192.95 | 288.22 | 51.88 | 314.75 | 348.58 | 328.42 | 21.88 PHASE |
| 296 | 32.73 | 118.17 | 580 | 79.61 | 24.18 | 26.56 | 7.21 | 21.38 | 19.77 | 24.58 | 4.68 AMP |
| 297 | 32.88 | 33.11 | 580 | 1.65 | 218.89 | 281.56 | 79.38 | 234.28 | 215.51 | 182.52 | 21.18 PHASE |
| 298 | 32.88 | 33.11 | 580 | 18.12 | 8.28 | 6.34 | 4.89 | 4.84 | 5.66 | 2.66 | .69 AMP |
| 299 | 32.88 | 33.11 | 580 | 382.97 | 175.52 | 297.89 | 4.84 | 288.27 | 199.86 | 142.47 | 314.58 PHASE |
| 300 | 32.88 | 33.11 | 580 | 58.36 | 9.47 | 7.88 | 5.92 | 5.71 | 7.97 | 2.44 | 1.89 AMP |
| 301 | 32.88 | 33.11 | 580 | 328.35 | 186.84 | 272.36 | 16.37 | 385.56 | 253.86 | 191.41 | 58.83 PHASE |
| 302 | 32.88 | 33.11 | 580 | 43.72 | 18.84 | 18.64 | 7.45 | 5.82 | 18.86 | 4.88 | 1.26 AMP |
| 303 | 32.88 | 33.11 | 580 | 331.86 | 288.89 | 266.76 | 27.29 | 297.86 | 291.46 | 263.58 | 88.83 PHASE |
| 304 | 32.88 | 33.11 | 580 | 58.85 | 18.52 | 14.12 | 7.58 | 4.43 | 18.92 | 6.96 | .71 AMP |
| 305 | 32.88 | 33.11 | 580 | 337.15 | 214.18 | 267.84 | 38.16 | 272.81 | 311.15 | 286.79 | 147.84 PHASE |
| 306 | 32.88 | 33.11 | 580 | 76.64 | 15.51 | 21.15 | 9.14 | 4.87 | 14.68 | 5.75 | 1.12 AMP |
| 307 | 32.88 | 33.11 | 580 | 348.49 | 225.87 | 284.83 | 43.36 | 229.22 | 358.78 | 9.87 | 288.86 PHASE |
| 308 | 32.88 | 33.11 | 580 | 82.87 | 21.39 | 23.77 | 7.66 | 12.82 | 7.77 | 9.39 | 1.89 AMP |
| 309 | 32.88 | 33.11 | 580 | 356.29 | 228.66 | 295.27 | 65.61 | 211.56 | 87.88 | 135.28 | 45.36 PHASE |
| 310 | 32.88 | 33.11 | 580 | 98.88 | 29.78 | 24.83 | 5.95 | 21.37 | 15.68 | 23.82 | 3.99 AMP |
| 311 | 32.88 | 33.11 | 580 | 227.39 | 295.37 | 86.18 | 213.45 | 189.77 | 159.95 | 99.88 | 99.88 PHASE |
| 312 | 32.88 | 33.11 | 580 | 15.15 | 8.26 | 4.82 | 5.31 | 3.41 | 8.24 | 2.49 | 1.82 AMP |
| 313 | 32.88 | 33.11 | 580 | 322.33 | 282.52 | 385.12 | 22.17 | 278.88 | 257.85 | 163.24 | 91.25 PHASE |
| 314 | 32.88 | 33.11 | 580 | 28.98 | 9.87 | 6.38 | 7.84 | 3.12 | 18.88 | 1.91 | 1.38 AMP |
| 315 | 32.88 | 33.11 | 580 | 337.83 | 218.81 | 268.83 | 28.83 | 258.85 | 291.88 | 287.88 | 121.58 PHASE |
| 316 | 32.88 | 33.11 | 580 | 43.89 | 11.47 | 18.38 | 8.86 | 3.64 | 11.66 | 2.39 | .96 AMP |
| 317 | 32.88 | 33.11 | 580 | 343.54 | 221.13 | 255.28 | 29.79 | 241.29 | 314.16 | 267.85 | 128.24 PHASE |
| 318 | 32.88 | 33.11 | 580 | 61.89 | 13.72 | 8.59 | 8.59 | 5.62 | 11.84 | 3.43 | .37 AMP |
| 319 | 32.88 | 33.11 | 580 | 346.78 | 238.53 | 256.93 | 23.94 | 223.92 | 327.83 | 297.48 | 224.38 PHASE |
| 320 | 32.88 | 33.11 | 580 | 71.26 | 15.58 | 15.22 | 8.61 | 6.85 | 10.99 | 4.84 | .88 AMP |
| 321 | 32.88 | 33.11 | 580 | 345.78 | 229.63 | 258.95 | 8.95 | 281.71 | 316.16 | 385.74 | 248.78 PHASE |
| 322 | 32.88 | 33.11 | 580 | 83.88 | 19.56 | 18.76 | 9.81 | 7.71 | 11.48 | 6.86 | 1.71 AMP |
| 323 | 32.88 | 33.11 | 580 | 352.79 | 231.87 | 264.63 | 11.51 | 189.98 | 3.17 | .53 | 314.84 PHASE |

TABLE VI.- Continued

(b) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | 3.51 | 3.72 | 580 | 2.84 | 1.40 | .66 | .64 | .30 | .05 | .07 | .12 AMP |
| | | | | 26.75 | 273.29 | 144.97 | 37.60 | 252.06 | 100.25 | 173.38 | 137.44 PHASE |
| 204 | 2.00 | 3.78 | 580 | 2.39 | 1.40 | .66 | .40 | .52 | .20 | .01 | .10 AMP |
| | | | | 28.90 | 275.70 | 131.75 | 32.50 | 235.24 | 175.96 | 121.70 | 120.73 PHASE |
| 205 | 1.85 | 3.83 | 580 | 3.06 | 1.15 | .67 | .26 | .33 | .19 | .08 | .12 AMP |
| | | | | 30.65 | 290.40 | 162.07 | 333.66 | 237.30 | 166.77 | 144.99 | 131.50 PHASE |
| 207 | .68 | 5.55 | 580 | 4.20 | .66 | 1.01 | .65 | .20 | .25 | .15 | .16 AMP |
| | | | | 28.81 | 306.43 | 200.34 | 300.46 | 239.41 | 149.96 | 172.68 | 175.21 PHASE |
| 208 | -.47 | 7.07 | 580 | 5.79 | .47 | 1.71 | .82 | .50 | .26 | .00 | .15 AMP |
| | | | | 24.06 | 347.09 | 207.44 | 307.04 | 203.97 | 193.77 | 203.12 | 154.96 PHASE |
| 209 | -2.24 | 12.15 | 580 | 8.60 | 1.13 | 2.42 | .00 | 1.79 | 1.23 | .86 | .50 AMP |
| | | | | 24.31 | 52.59 | 210.12 | 33.40 | 174.24 | 214.56 | 246.20 | 270.60 PHASE |
| 210 | -5.29 | 23.63 | 580 | 13.10 | 1.41 | 4.47 | 1.34 | 7.05 | 5.79 | 3.10 | 1.94 AMP |
| | | | | 17.00 | 9.16 | 250.00 | 239.15 | 229.02 | 277.54 | 302.27 | 324.23 PHASE |
| 211 | 2.02 | 3.87 | 580 | 2.41 | 1.52 | .81 | .02 | .20 | .19 | .07 | .06 AMP |
| | | | | 33.09 | 297.12 | 190.98 | 56.59 | 300.03 | 104.36 | 13.00 | 07.69 PHASE |
| 212 | 1.29 | 4.77 | 580 | 2.99 | 1.00 | 1.09 | .00 | .16 | .12 | .02 | .00 AMP |
| | | | | 33.93 | 301.97 | 195.92 | 212.02 | 271.34 | 106.35 | 69.90 | 62.99 PHASE |
| 213 | .54 | 5.62 | 580 | 3.79 | 2.00 | 1.49 | .13 | .10 | .23 | .11 | .07 AMP |
| | | | | 33.62 | 309.77 | 207.66 | 260.65 | 277.43 | 129.01 | 210.26 | 72.01 PHASE |
| 214 | -.28 | 7.17 | 580 | 4.90 | 2.12 | 2.11 | .35 | .26 | .20 | .15 | .02 AMP |
| | | | | 31.00 | 313.56 | 211.49 | 315.53 | 290.10 | 139.95 | 220.14 | 113.77 PHASE |
| 215 | -1.95 | 12.63 | 580 | 7.93 | 1.42 | 3.24 | 1.29 | 1.13 | 1.13 | .49 | .17 AMP |
| | | | | 29.50 | 343.97 | 219.20 | 36.72 | 135.16 | 200.77 | 253.92 | 219.73 PHASE |
| 216 | -3.23 | 16.23 | 580 | 10.07 | 1.44 | 3.61 | 1.00 | 3.44 | 2.47 | 1.40 | .01 AMP |
| | | | | 20.70 | 354.36 | 227.00 | 95.30 | 105.77 | 237.34 | 276.30 | 295.09 PHASE |
| 217 | -4.02 | 20.92 | 580 | 12.39 | 1.69 | 4.00 | 1.45 | 5.97 | 4.45 | 2.39 | 1.41 AMP |
| | | | | 24.40 | 336.91 | 236.69 | 136.54 | 200.07 | 257.70 | 290.12 | 310.01 PHASE |
| 218 | 1.51 | 3.00 | 580 | 2.27 | 1.62 | .95 | .12 | .16 | .17 | .06 | .06 AMP |
| | | | | 35.09 | 311.45 | 222.13 | 59.54 | 274.62 | 131.90 | 102.05 | 65.41 PHASE |
| 219 | .04 | 4.64 | 580 | 2.09 | 1.00 | 1.12 | .11 | .29 | .16 | .05 | .07 AMP |
| | | | | 35.14 | 312.40 | 220.90 | 49.40 | 233.77 | 121.54 | 205.25 | 56.54 PHASE |
| 220 | .10 | 5.55 | 580 | 3.59 | 2.10 | 1.36 | .16 | .37 | .28 | .15 | .05 AMP |
| | | | | 34.16 | 314.35 | 221.06 | 23.03 | 220.54 | 152.00 | 239.11 | 42.59 PHASE |
| 221 | -.47 | 6.63 | 580 | 4.50 | 2.46 | 1.77 | .34 | .30 | .35 | .19 | .02 AMP |
| | | | | 32.90 | 312.72 | 217.00 | 15.45 | 199.60 | 161.17 | 231.06 | 36.07 PHASE |
| 222 | -.02 | 7.40 | 580 | 5.12 | 2.55 | 2.15 | .40 | .37 | .43 | .22 | .05 AMP |
| | | | | 29.93 | 307.06 | 209.92 | 1.19 | 161.72 | 149.06 | 211.07 | 10.45 PHASE |
| 223 | -1.71 | 11.10 | 580 | 7.05 | 2.13 | 2.00 | 1.20 | 1.14 | .05 | .39 | .13 AMP |
| | | | | 29.02 | 317.34 | 214.73 | 25.92 | 115.32 | 150.50 | 211.66 | 191.96 PHASE |

TABLE VI.- Continued

(b) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|----------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | 18.14 | 28.32 | 580 | 16.27 138.31 | 14.29 345.64 | 4.94 75.24 | .47 351.45 | .29 285.71 | .57 140.95 | 1.40 73.03 | .30 219.17 |
| 204 | 20.28 | 26.86 | 580 | 17.86 135.13 | 13.12 338.40 | 4.52 55.24 | .18 333.10 | .13 127.57 | .65 107.44 | 1.29 60.93 | .39 60.45 |
| 205 | 22.57 | 26.55 | 580 | 18.09 135.74 | 12.18 338.42 | 4.74 47.77 | .12 44.00 | .31 98.85 | .69 105.24 | 1.19 70.74 | .76 54.04 |
| 207 | 24.83 | 26.22 | 580 | 19.31 134.15 | 11.47 334.73 | 4.91 41.68 | .25 156.31 | .57 91.75 | .96 89.92 | 1.33 82.33 | 1.54 18.46 |
| 208 | 27.09 | 26.54 | 580 | 19.95 128.00 | 11.38 328.60 | 4.84 33.54 | .30 169.31 | .83 64.41 | .57 57.32 | 1.48 51.48 | 2.43 335.07 |
| 209 | 29.44 | 30.49 | 580 | 20.70 129.55 | 12.56 335.99 | 4.74 46.07 | .40 186.68 | 1.22 57.93 | 1.49 67.69 | 2.54 74.50 | 3.39 10.98 |
| 210 | 31.09 | 33.60 | 580 | 20.44 127.69 | 10.66 337.49 | 2.14 61.86 | 1.57 171.39 | 2.35 70.43 | 2.62 130.73 | 1.97 138.29 | 2.96 42.68 |
| 211 | 22.78 | 25.68 | 580 | 15.78 131.49 | 13.07 338.96 | 4.63 59.12 | .37 351.46 | .66 276.06 | .15 69.58 | .75 20.31 | .04 193.84 |
| 212 | 25.35 | 25.81 | 580 | 16.90 130.25 | 12.66 337.30 | 4.90 48.20 | .64 25.88 | .18 279.07 | .30 87.42 | .11 4.39 | .11 301.72 |
| 213 | 27.84 | 26.15 | 580 | 17.86 130.11 | 12.36 337.90 | 4.82 44.61 | .21 203.51 | .65 293.73 | .10 114.28 | .87 7.40 | .13 272.81 |
| 214 | 30.42 | 26.03 | 580 | 18.54 128.76 | 11.95 337.19 | 4.61 48.63 | .57 201.03 | .62 293.68 | .06 97.17 | 1.07 1.49 | .40 321.78 |
| 215 | 32.65 | 27.55 | 580 | 19.24 127.25 | 12.74 339.62 | 4.53 57.15 | .91 233.37 | 1.18 320.10 | .55 57.38 | 1.76 41.45 | .70 332.53 |
| 216 | 33.93 | 29.84 | 580 | 19.13 129.36 | 14.03 341.61 | 4.21 71.71 | .83 248.09 | 1.61 11.67 | 1.40 111.50 | 1.49 93.02 | 1.07 44.39 |
| 217 | 34.63 | 32.21 | 580 | 18.83 126.68 | 17.24 340.31 | 4.30 92.24 | .61 196.66 | 1.74 35.48 | 2.24 141.49 | 1.15 139.79 | .40 70.00 |
| 218 | 25.57 | 20.69 | 580 | 13.59 134.99 | 10.46 353.09 | 3.69 62.57 | .24 205.68 | .55 306.49 | .15 117.70 | .25 42.03 | .39 109.98 |
| 219 | 28.01 | 20.75 | 580 | 14.48 132.99 | 10.34 349.04 | 3.98 45.78 | .34 238.92 | .51 296.02 | .18 94.42 | .17 7.86 | .30 94.02 |
| 220 | 30.46 | 21.47 | 580 | 15.48 132.54 | 10.72 347.76 | 4.32 39.58 | .51 215.32 | .50 303.30 | .22 76.97 | .22 331.24 | .32 79.28 |
| 221 | 33.11 | 22.71 | 580 | 16.41 131.62 | 11.27 343.96 | 4.54 33.50 | .76 208.89 | .56 302.55 | .18 53.86 | .42 347.00 | .35 39.00 |
| 222 | 34.55 | 23.61 | 580 | 16.82 128.72 | 11.67 337.62 | 4.50 25.54 | .86 189.98 | .64 286.24 | .13 19.84 | .49 340.14 | .40 0.03 |
| 223 | 35.89 | 25.08 | 580 | 17.34 128.09 | 12.29 338.93 | 4.38 37.11 | .96 203.51 | 1.06 303.00 | .50 14.53 | .13 24.51 | .94 .07 |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|----------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | 46.41 | 34.92 | 580 | 11.09 277.17 | 3.05 144.99 | 3.28 304.92 | 3.62 127.83 | 7.32 322.79 | 16.55 323.49 | 1.96 124.00 | .79 74.66 |
| 204 | 44.37 | 41.79 | 580 | 18.19 290.35 | 4.67 159.79 | 5.44 297.70 | 2.88 75.03 | 8.48 302.56 | 9.78 350.12 | 5.83 65.77 | .38 238.72 |
| 205 | 42.48 | 49.81 | 580 | 27.72 314.36 | 6.99 163.00 | 6.04 280.27 | 6.10 65.62 | 10.21 315.70 | 7.91 324.36 | 6.92 119.07 | 2.22 44.65 |
| 207 | 39.52 | 57.51 | 580 | 38.61 330.05 | 8.26 162.45 | 9.52 272.49 | 8.27 74.91 | 9.59 319.62 | 10.41 358.11 | 9.82 299.04 | 2.38 10.09 |
| 208 | 37.55 | 60.32 | 580 | 48.00 333.42 | 8.03 163.02 | 12.68 267.05 | 8.09 12.14 | 9.00 310.51 | 10.41 359.38 | 1.82 303.16 | 2.00 332.50 |
| 209 | 35.30 | 76.32 | 580 | 58.12 345.19 | 11.74 184.76 | 20.05 285.54 | 12.14 50.13 | 3.14 331.36 | 14.00 36.77 | 5.88 320.64 | 5.26 15.35 |
| 210 | 35.48 | 134.27 | 580 | 64.54 2.47 | 25.04 201.72 | 27.06 290.04 | 7.02 87.75 | 24.77 239.82 | 22.86 222.02 | 32.48 180.36 | 6.04 15.55 |
| 211 | 39.69 | 32.24 | 580 | 15.48 300.99 | 6.23 178.24 | 4.70 316.34 | 4.57 10.26 | 5.58 286.33 | 6.19 201.69 | 3.51 145.93 | 1.13 309.11 |
| 212 | 39.02 | 46.95 | 580 | 25.31 316.50 | 6.94 190.65 | 4.89 207.11 | 6.39 20.33 | 6.44 302.97 | 9.22 257.50 | 3.20 191.30 | 1.44 69.00 |
| 213 | 38.32 | 61.00 | 580 | 36.12 327.59 | 7.27 204.37 | 8.05 276.48 | 7.88 30.17 | 8.82 295.84 | 10.41 295.65 | 1.82 263.72 | 2.38 100.64 |
| 214 | 37.26 | 74.37 | 580 | 48.54 333.13 | 7.35 219.47 | 11.39 275.58 | 7.00 30.06 | 5.32 271.82 | 13.50 313.75 | 8.82 208.48 | 1.14 151.59 |
| 215 | 34.86 | 93.22 | 580 | 63.25 345.73 | 12.49 219.86 | 19.35 292.25 | 10.09 43.35 | 6.59 233.33 | 17.69 359.27 | 7.00 17.60 | 1.54 277.50 |
| 216 | 35.00 | 109.72 | 580 | 67.81 355.11 | 19.37 221.87 | 23.06 304.52 | 8.58 69.35 | 14.40 215.95 | 8.32 85.63 | 12.76 142.49 | 1.21 28.09 |
| 217 | 36.03 | 142.75 | 580 | 72.11 .89 | 27.00 220.57 | 24.26 306.07 | 6.69 101.41 | 25.71 216.70 | 18.44 190.40 | 10.41 166.99 | 3.07 106.49 |
| 218 | 39.23 | 34.61 | 580 | 12.67 320.39 | 6.74 206.58 | 3.23 329.20 | 5.75 26.76 | 4.05 272.53 | 9.63 260.37 | 3.26 166.09 | 1.56 92.58 |
| 219 | 39.21 | 51.19 | 580 | 23.71 333.94 | 7.92 213.74 | 4.48 272.73 | 7.57 31.39 | 3.58 263.52 | 12.87 294.07 | 2.66 211.00 | 1.99 124.06 |
| 220 | 38.96 | 60.34 | 580 | 35.58 339.99 | 8.08 226.11 | 7.93 265.81 | 8.59 31.32 | 4.10 245.55 | 14.11 315.56 | 3.21 267.05 | 1.47 133.19 |
| 221 | 38.56 | 74.27 | 580 | 49.07 343.00 | 10.55 237.75 | 11.20 267.55 | 9.14 23.37 | 6.18 227.39 | 14.34 327.65 | 4.33 298.82 | .46 205.08 |
| 222 | 38.19 | 78.15 | 580 | 57.18 341.89 | 11.74 236.00 | 12.62 261.53 | 9.35 7.79 | 7.63 204.11 | 13.33 314.48 | 4.93 309.16 | .80 240.00 |
| 223 | 37.62 | 94.32 | 580 | 66.76 349.36 | 15.27 232.69 | 17.06 274.53 | 10.42 11.01 | 8.63 192.27 | 13.41 1.14 | 7.40 10.22 | 2.49 320.65 |

TABLE VI.- Continued

(b) Continued

| TORSION 5# PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | 1.16 | 2.77 | 58# | 1.67 | 1.84 | .42 | .44 | -.18 | .89 | .87 | .89 AMP |
| 204 | .73 | 2.84 | 58# | 49.23 | 292.67 | 147.75 | 69.58 | 286.36 | 145.58 | 145.13 | 157.11 PHASE |
| 205 | .28 | 3.81 | 58# | 1.95 | 1.87 | .37 | .32 | .34 | .19 | .84 | .89 AMP |
| 206 | -.39 | 3.65 | 58# | 49.87 | 291.88 | 131.67 | 65.38 | 258.56 | 188.28 | 51.38 | 137.58 PHASE |
| 207 | -1.88 | 4.48 | 58# | 2.38 | 1.88 | .34 | .11 | -.26 | .16 | .87 | .88 AMP |
| 208 | -2.89 | 7.29 | 58# | 51.57 | 388.88 | 147.58 | 51.94 | 262.19 | 178.17 | 132.89 | 146.82 PHASE |
| 209 | -4.78 | 17.98 | 58# | 2.82 | 1.81 | .44 | .32 | .22 | .28 | .89 | .87 AMP |
| 210 | -.81 | 3.18 | 58# | 49.14 | 311.53 | 185.63 | 385.44 | 288.28 | 168.89 | 216.48 | 191.82 PHASE |
| 211 | -.42 | 3.71 | 58# | 3.54 | 1.88 | .82 | .47 | .33 | .21 | .86 | .11 AMP |
| 212 | -.86 | 4.52 | 58# | 42.51 | 323.65 | 198.86 | 296.28 | 244.56 | 179.16 | 384.96 | 178.12 PHASE |
| 213 | -1.33 | 5.17 | 58# | 6.11 | 1.38 | 1.48 | .81 | 1.12 | .91 | .66 | .33 AMP |
| 214 | -2.19 | 7.66 | 58# | 36.51 | 9.84 | 288.19 | 122.17 | 281.62 | 237.91 | 296.88 | 325.37 PHASE |
| 215 | -3.28 | 11.34 | 58# | 8.64 | 2.83 | 2.43 | 1.59 | 4.85 | 4.67 | 2.88 | 1.44 AMP |
| 216 | -4.63 | 15.61 | 58# | 24.12 | 9.69 | 262.37 | 272.62 | 258.52 | 312.13 | 353.81 | 12.41 PHASE |
| 217 | -.24 | 3.15 | 58# | 2.85 | 1.26 | .45 | .89 | .21 | .16 | .12 | .87 AMP |
| 218 | -.66 | 3.84 | 58# | 49.67 | 389.19 | 199.18 | 123.96 | 348.88 | 124.11 | 44.14 | 116.37 PHASE |
| 219 | -1.51 | 5.27 | 58# | 2.49 | 1.46 | .62 | .11 | .14 | .11 | .89 | .88 AMP |
| 220 | -1.78 | 5.75 | 58# | 48.95 | 311.15 | 284.45 | 162.18 | 313.41 | 184.85 | 58.51 | 76.79 PHASE |
| 221 | -2.18 | 7.82 | 58# | 3.88 | 1.66 | .83 | .89 | .17 | .21 | .85 | .86 AMP |
| 222 | -2.18 | 7.82 | 58# | 48.58 | 316.79 | 215.45 | 188.88 | 318.92 | 124.77 | 261.51 | 68.88 PHASE |
| 223 | -2.18 | 7.82 | 58# | 3.65 | 1.76 | 1.18 | .89 | .27 | .27 | .18 | .85 AMP |
| 224 | -2.18 | 7.82 | 58# | 46.58 | 319.28 | 218.26 | 322.11 | 316.98 | 128.27 | 268.58 | 336.69 PHASE |
| 225 | -2.18 | 7.82 | 58# | 5.26 | 1.68 | 1.75 | .63 | .63 | .76 | .51 | .12 AMP |
| 226 | -2.18 | 7.82 | 58# | 42.29 | 339.22 | 219.29 | 82.57 | 158.55 | 218.28 | 292.53 | 338.22 PHASE |
| 227 | -2.18 | 7.82 | 58# | 6.78 | 1.63 | 2.87 | 1.16 | 2.25 | 1.83 | 1.36 | .62 AMP |
| 228 | -2.18 | 7.82 | 58# | 38.14 | 352.88 | 226.71 | 137.31 | 215.44 | 278.41 | 323.15 | 353.91 PHASE |
| 229 | -2.18 | 7.82 | 58# | 8.53 | 1.83 | 2.88 | 1.89 | 4.89 | 3.43 | 2.38 | 1.14 AMP |
| 230 | -2.18 | 7.82 | 58# | 31.78 | 347.85 | 243.82 | 187.42 | 248.71 | 294.52 | 335.34 | 2.22 PHASE |
| 231 | -2.18 | 7.82 | 58# | 2.88 | 1.24 | .53 | .11 | .12 | .14 | .87 | .88 AMP |
| 232 | -2.18 | 7.82 | 58# | 51.52 | 322.67 | 232.97 | 187.83 | 327.82 | 144.28 | 113.62 | 74.23 PHASE |
| 233 | -2.18 | 7.82 | 58# | 2.45 | 1.39 | .63 | .18 | .19 | .16 | .83 | .18 AMP |
| 234 | -2.18 | 7.82 | 58# | 49.75 | 328.16 | 238.86 | 118.42 | 268.45 | 122.85 | 216.56 | 61.28 PHASE |
| 235 | -2.18 | 7.82 | 58# | 2.94 | 1.59 | .76 | .11 | .25 | .22 | .12 | .11 AMP |
| 236 | -2.18 | 7.82 | 58# | 48.35 | 328.29 | 238.87 | 76.98 | 249.93 | 153.88 | 278.88 | 49.32 PHASE |
| 237 | -2.18 | 7.82 | 58# | 3.53 | 1.85 | .99 | .22 | .25 | .16 | .89 | .89 AMP |
| 238 | -2.18 | 7.82 | 58# | 46.58 | 318.28 | 224.87 | 51.97 | 227.48 | 165.27 | 274.58 | 33.86 PHASE |
| 239 | -2.18 | 7.82 | 58# | 3.91 | 1.97 | 1.21 | .28 | .25 | .29 | .19 | .18 AMP |
| 240 | -2.18 | 7.82 | 58# | 43.64 | 312.41 | 217.59 | 37.78 | 187.22 | 164.68 | 252.82 | 5.28 PHASE |
| 241 | -2.18 | 7.82 | 58# | 4.84 | 1.99 | 1.45 | .74 | .79 | .65 | .41 | .13 AMP |
| 242 | -2.18 | 7.82 | 58# | 41.41 | 322.37 | 216.59 | 62.89 | 137.39 | 188.88 | 252.79 | 388.58 PHASE |

TABLE VI.- Continued

(b) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|-----------------|---------------|----------------|----------------|---------------|----------------|----------------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | .97 | 25.22 | 580 | 14.82 140.82 | 11.25 342.76 | 3.24 41.25 | 2.29 245.54 | 2.99 238.24 | .61 74.54 | 1.13 249.27 | .21 14.47 AMP |
| 204 | 3.34 | 25.12 | 580 | 15.29 138.80 | 10.58 333.51 | 3.02 27.00 | 1.89 253.18 | 3.52 214.00 | .72 74.49 | .98 232.42 | .76 229.00 PHASE |
| 205 | 5.90 | 25.25 | 580 | 16.13 140.17 | 10.00 333.55 | 3.10 29.24 | 1.83 278.26 | 3.39 220.24 | .45 94.46 | 1.01 243.97 | 1.32 230.45 PHASE |
| 207 | 8.64 | 27.43 | 580 | 17.24 140.17 | 9.46 329.30 | 2.71 32.92 | 2.21 280.93 | 4.02 211.78 | .31 63.91 | .99 262.35 | 2.41 200.68 PHASE |
| 208 | 11.23 | 28.13 | 580 | 17.96 136.63 | 9.57 324.02 | 2.91 37.11 | 2.25 287.58 | 3.11 190.58 | .49 25.79 | 1.15 225.40 | 3.55 157.78 PHASE |
| 209 | 13.36 | 28.68 | 580 | 18.88 139.55 | 10.94 332.57 | 2.83 49.61 | 2.57 307.69 | 2.29 155.27 | .83 71.45 | 2.10 248.73 | 4.99 191.36 PHASE |
| 210 | 13.88 | 34.68 | 580 | 18.21 139.45 | 16.34 332.23 | 1.83 21.95 | 2.39 335.26 | 7.04 152.95 | .56 169.46 | 2.28 305.70 | 4.51 215.81 PHASE |
| 211 | 5.11 | 22.81 | 580 | 15.33 135.30 | 10.42 339.52 | 3.35 36.03 | 1.51 217.66 | 1.12 215.64 | .69 73.90 | .57 181.31 | .06 332.25 PHASE |
| 212 | 7.69 | 23.77 | 580 | 16.17 135.30 | 10.24 336.13 | 3.47 33.92 | 1.24 235.88 | 1.59 200.05 | .82 71.37 | .66 164.78 | .25 170.32 PHASE |
| 213 | 10.27 | 25.14 | 580 | 17.21 136.45 | 10.18 336.84 | 3.55 38.86 | 1.16 250.00 | 1.74 195.24 | .96 60.66 | .46 156.63 | .27 183.44 PHASE |
| 214 | 13.04 | 26.87 | 580 | 18.20 136.62 | 10.24 334.05 | 3.43 40.68 | 1.31 270.00 | 1.92 196.89 | 1.31 51.15 | .50 154.82 | .73 172.20 PHASE |
| 215 | 15.72 | 28.00 | 580 | 19.51 138.26 | 11.22 335.76 | 4.83 58.50 | 1.79 294.73 | .54 211.41 | 1.44 61.52 | 1.04 220.99 | 1.33 170.17 PHASE |
| 216 | 16.58 | 29.74 | 580 | 19.71 140.93 | 12.76 337.33 | 3.59 69.35 | 1.64 307.16 | 2.75 140.42 | 1.58 86.54 | 1.28 277.65 | 2.01 217.49 PHASE |
| 217 | 17.02 | 33.07 | 580 | 19.86 140.15 | 15.13 336.20 | 3.70 81.03 | 1.55 287.09 | 4.70 155.66 | 1.19 85.13 | 1.45 323.12 | 2.25 230.25 PHASE |
| 218 | 7.61 | 19.21 | 580 | 13.33 139.55 | 8.29 352.48 | 2.60 39.53 | 1.25 211.80 | 1.97 204.02 | .43 102.75 | .07 170.28 | .49 294.76 PHASE |
| 219 | 10.15 | 20.36 | 580 | 14.11 137.98 | 8.22 347.05 | 3.00 27.93 | .94 212.18 | 2.54 195.04 | 4.00 60.52 | .28 99.89 | .50 265.46 PHASE |
| 220 | 12.69 | 21.91 | 580 | 15.17 130.07 | 8.68 344.62 | 2.95 29.05 | .63 209.49 | 2.61 189.02 | .55 42.87 | .27 84.49 | .58 255.00 PHASE |
| 221 | 15.48 | 23.74 | 580 | 16.32 137.61 | 9.37 338.81 | 3.85 27.83 | .34 247.55 | 2.48 181.02 | .74 41.82 | .23 122.25 | .62 227.81 PHASE |
| 222 | 16.90 | 24.85 | 580 | 16.97 135.33 | 9.77 331.02 | 4.00 22.86 | .36 200.28 | 2.40 161.38 | .85 33.27 | .27 136.55 | .64 190.99 PHASE |
| 223 | 18.25 | 25.73 | 580 | 17.73 136.83 | 10.85 332.90 | 4.58 36.67 | .54 332.72 | 1.90 129.33 | 1.14 61.91 | .94 200.17 | 1.39 177.61 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|----------------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 203 | 64.19 | 22.86 | 580 | 7.26 156.00 | 7.13 341.90 | 2.59 31.57 | 1.29 199.24 | 3.91 279.38 | 6.14 321.54 | .51 156.88 | .20 37.63 AMP |
| 204 | 64.25 | 22.11 | 580 | 5.78 164.52 | 6.25 330.72 | 2.64 7.14 | .29 207.92 | 4.16 256.20 | 4.03 351.84 | 2.03 65.09 | .95 214.25 PHASE |
| 205 | 65.73 | 18.09 | 580 | 3.26 174.85 | 5.31 331.84 | 2.36 4.31 | 1.14 42.46 | 4.37 270.69 | 2.95 327.98 | 2.74 121.06 | .42 204.47 PHASE |
| 207 | 66.40 | 22.03 | 580 | 2.25 191.86 | 4.50 329.07 | 2.11 344.94 | 1.67 63.73 | 3.83 262.36 | 4.28 356.28 | .94 276.01 | 1.39 190.75 PHASE |
| 208 | 68.05 | 21.60 | 580 | 2.15 339.63 | 4.74 325.50 | 2.40 320.00 | 2.22 35.39 | 2.77 256.67 | 5.53 353.75 | 3.60 209.47 | 1.71 158.86 PHASE |
| 209 | 70.18 | 27.21 | 580 | 4.34 .25 | 4.60 323.73 | 4.22 312.53 | 3.75 25.62 | .00 124.99 | 6.06 33.09 | 2.86 290.99 | 2.25 195.07 PHASE |
| 210 | 70.28 | 52.71 | 580 | 8.77 37.55 | 4.82 291.33 | 7.07 289.38 | .01 16.18 | 11.25 213.39 | 9.14 224.84 | 11.83 180.26 | 1.95 267.35 PHASE |
| 211 | 62.05 | 17.47 | 580 | 5.43 150.75 | 5.78 332.95 | 3.36 16.35 | .71 328.73 | 2.50 260.49 | 2.84 106.16 | 1.89 151.01 | .39 298.20 PHASE |
| 212 | 63.04 | 17.99 | 580 | 3.04 154.99 | 5.02 326.41 | 3.08 10.59 | 1.43 3.64 | 2.52 263.90 | 2.90 255.92 | 1.71 178.01 | .74 87.52 PHASE |
| 213 | 64.74 | 10.30 | 580 | 4.45 162.72 | 6.11 325.21 | 2.94 356.17 | 2.01 18.61 | 2.57 254.11 | 4.41 296.83 | 2.39 250.14 | 1.06 100.49 PHASE |
| 214 | 66.53 | 23.04 | 580 | 2.53 331.63 | 6.74 322.00 | 3.25 339.74 | 2.00 15.35 | 2.95 238.29 | 5.34 316.93 | 3.38 278.99 | 1.16 145.99 PHASE |
| 215 | 68.32 | 24.85 | 580 | 5.69 352.47 | 7.00 315.24 | 4.98 329.14 | 3.15 20.38 | 2.63 222.18 | 7.12 357.03 | 2.56 2.61 | 1.34 193.12 PHASE |
| 216 | 70.14 | 33.90 | 580 | 6.50 12.22 | 7.85 301.47 | 5.95 331.07 | 2.40 49.52 | 6.95 192.65 | 2.86 84.97 | 3.96 145.34 | 1.25 239.31 PHASE |
| 217 | 71.64 | 45.59 | 580 | 8.85 30.10 | 7.31 204.09 | 5.19 330.42 | 2.02 130.07 | 13.40 200.00 | 7.92 204.97 | 10.06 164.61 | 1.01 201.46 PHASE |
| 218 | 63.30 | 16.41 | 580 | 4.25 146.76 | 4.36 340.21 | 2.70 22.41 | 1.09 16.90 | 2.62 234.46 | 3.37 252.54 | 1.32 159.64 | .41 71.92 PHASE |
| 219 | 63.49 | 15.42 | 580 | 1.79 126.53 | 4.44 330.96 | 2.39 1.18 | 1.93 28.57 | 2.74 210.31 | 4.72 290.30 | .98 195.25 | .72 134.27 PHASE |
| 220 | 65.48 | 17.66 | 580 | 1.51 17.40 | 5.17 325.69 | 2.71 342.94 | 2.51 29.00 | 3.14 213.16 | 5.46 312.07 | 1.09 260.91 | .62 159.01 PHASE |
| 221 | 67.77 | 22.24 | 580 | 4.44 350.51 | 6.39 313.86 | 3.49 330.06 | 2.93 19.27 | 3.82 204.51 | 5.69 324.69 | 1.62 294.19 | .58 205.31 PHASE |
| 222 | 68.94 | 23.53 | 580 | 6.07 344.72 | 7.10 311.06 | 3.84 319.00 | 3.10 4.09 | 4.44 183.93 | 5.28 311.02 | 1.93 304.15 | .72 206.34 PHASE |
| 223 | 70.02 | 30.22 | 580 | 7.64 353.95 | 7.50 304.73 | 5.14 317.26 | 3.89 4.28 | 3.79 165.97 | 5.26 3.38 | 2.37 358.58 | .93 239.63 PHASE |

TABLE VI.- Continued

(b) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 35 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 203 | -1.94 | 1.87 | 580 | 1.15 | .19 | .24 | .25 | .12 | .09 | .14 | .15 | AMP |
| 204 | -2.18 | 1.85 | 580 | 121.98 | 280.87 | 243.78 | 94.49 | 18.23 | 225.23 | 115.89 | 38.83 | PHASE |
| 205 | -2.43 | 1.88 | 580 | 1.30 | .24 | .18 | .17 | .11 | .16 | .09 | .15 | AMP |
| 207 | -2.78 | 2.45 | 580 | 186.84 | 268.57 | 239.97 | 81.83 | 288.49 | 192.95 | 45.38 | 21.77 | PHASE |
| 208 | -2.89 | 3.18 | 580 | 1.54 | .31 | .17 | .18 | .08 | .11 | .11 | .17 | AMP |
| 209 | -3.27 | 5.36 | 580 | 96.74 | 278.18 | 232.45 | 122.61 | 383.86 | 193.48 | 69.28 | 29.38 | PHASE |
| 210 | -4.38 | 18.46 | 580 | 1.88 | .38 | .23 | .11 | .11 | .12 | .05 | .17 | AMP |
| 211 | -2.47 | 1.97 | 580 | 88.33 | 291.41 | 232.78 | 226.19 | 278.88 | 169.92 | 78.77 | 18.52 | PHASE |
| 212 | -2.78 | 2.16 | 580 | 2.27 | .47 | .35 | .19 | .24 | .15 | .11 | .14 | AMP |
| 213 | -2.92 | 2.73 | 580 | 79.88 | 298.48 | 213.44 | 212.87 | 218.87 | 185.53 | 343.38 | 352.37 | PHASE |
| 214 | -3.18 | 3.27 | 580 | 2.76 | .81 | .59 | .68 | .78 | .51 | .32 | .35 | AMP |
| 215 | -3.31 | 3.91 | 580 | 66.79 | 351.28 | 163.61 | 177.32 | 286.43 | 248.85 | 332.85 | 29.94 | PHASE |
| 216 | -3.78 | 6.93 | 580 | 3.58 | 2.37 | .48 | 1.35 | 1.97 | 2.48 | 1.68 | .53 | AMP |
| 217 | -4.28 | 9.82 | 580 | 33.56 | 357.87 | 241.13 | 267.17 | 266.78 | 315.82 | 21.27 | 69.82 | PHASE |
| 218 | -2.66 | 1.99 | 580 | 1.44 | .36 | .38 | .18 | .18 | .06 | .11 | .04 | AMP |
| 219 | -2.88 | 2.30 | 580 | 184.35 | 385.78 | 234.94 | 131.47 | 354.65 | 139.46 | 38.58 | 38.45 | PHASE |
| 220 | -3.10 | 2.85 | 580 | 1.72 | .48 | .44 | .22 | .12 | .03 | .18 | .08 | AMP |
| 221 | -3.32 | 3.30 | 580 | 91.26 | 382.14 | 224.44 | 152.47 | 359.66 | 184.31 | 52.58 | 29.88 | PHASE |
| 222 | -3.37 | 3.68 | 580 | 2.85 | .63 | .52 | .24 | .87 | .11 | .04 | .08 | AMP |
| 223 | -3.50 | 4.17 | 580 | 83.13 | 385.68 | 223.61 | 165.58 | 354.72 | 94.84 | 98.48 | 34.18 | PHASE |
| | | | | 2.48 | .76 | .68 | .28 | .11 | .17 | .02 | .08 | AMP |
| | | | | 76.36 | 385.75 | 217.54 | 166.55 | 338.69 | 98.71 | 144.15 | 16.35 | PHASE |
| | | | | 3.11 | .93 | .73 | .48 | .34 | .44 | .33 | .27 | AMP |
| | | | | 69.56 | 328.62 | 196.88 | 148.84 | 141.14 | 211.11 | 297.96 | 45.72 | PHASE |
| | | | | 3.36 | 1.39 | .94 | .77 | .91 | 1.18 | .86 | .48 | AMP |
| | | | | 59.82 | 349.44 | 188.87 | 172.88 | 213.23 | 276.98 | 343.78 | 62.42 | PHASE |
| | | | | 3.61 | 2.11 | 1.82 | .85 | 1.49 | 2.85 | 1.42 | .51 | AMP |
| | | | | 43.51 | 347.76 | 214.84 | 228.86 | 247.28 | 382.14 | 358.87 | 58.71 | PHASE |
| | | | | 1.58 | .43 | .42 | .11 | .11 | .05 | .07 | .08 | AMP |
| | | | | 108.69 | 326.99 | 246.85 | 155.39 | 19.83 | 121.87 | 184.14 | 34.86 | PHASE |
| | | | | 1.76 | .53 | .46 | .13 | .04 | .09 | .05 | .18 | AMP |
| | | | | 94.61 | 317.86 | 234.68 | 166.17 | 345.77 | 99.15 | 151.88 | 32.45 | PHASE |
| | | | | 2.87 | .65 | .58 | .11 | .04 | .13 | .06 | .12 | AMP |
| | | | | 84.76 | 313.23 | 226.37 | 166.12 | 234.78 | 121.82 | 288.69 | 32.87 | PHASE |
| | | | | 2.52 | .78 | .59 | .18 | .05 | .15 | .08 | .13 | AMP |
| | | | | 76.25 | 387.88 | 216.63 | 138.77 | 197.81 | 138.21 | 211.95 | 29.11 | PHASE |
| | | | | 2.88 | .84 | .67 | .09 | .06 | .17 | .18 | .12 | AMP |
| | | | | 78.59 | 381.53 | 286.44 | 122.15 | 137.88 | 119.37 | 195.67 | 8.83 | PHASE |
| | | | | 3.19 | .99 | .78 | .37 | .37 | .32 | .24 | .19 | AMP |
| | | | | 65.68 | 319.84 | 189.71 | 112.91 | 128.85 | 178.99 | 246.59 | 7.47 | PHASE |

| PITCH LINK | | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 35 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 203 | -3.86 | 5.74 | 580 | 2.92 | 2.86 | .47 | .86 | .24 | .17 | .45 | .22 | AMP |
| 204 | -2.58 | 6.87 | 580 | 226.38 | 183.17 | 311.34 | 236.46 | 134.62 | 189.55 | 66.87 | 5.36 | PHASE |
| 205 | -1.77 | 6.22 | 580 | 3.56 | 1.93 | .28 | .65 | .51 | .38 | .43 | .24 | AMP |
| 207 | -.76 | 8.55 | 580 | 226.82 | 183.26 | 294.54 | 232.61 | 113.72 | 49.37 | 34.61 | 2.14 | PHASE |
| 208 | .17 | 11.16 | 580 | 4.29 | 1.68 | .23 | .44 | .51 | .35 | .56 | .48 | AMP |
| 209 | 1.55 | 16.38 | 580 | 228.23 | 113.89 | 22.34 | 283.55 | 134.54 | 46.14 | 28.82 | 14.23 | PHASE |
| 210 | 4.85 | 28.72 | 580 | 5.67 | 1.11 | .88 | .64 | .67 | .41 | .49 | .55 | AMP |
| 211 | -1.25 | 5.88 | 580 | 223.26 | 117.94 | 69.16 | 182.55 | 136.65 | 52.23 | 43.76 | .53 | PHASE |
| 212 | -.74 | 6.93 | 580 | 7.66 | .86 | 1.61 | .83 | .97 | .63 | .43 | .63 | AMP |
| 213 | -.26 | 8.38 | 580 | 216.99 | 127.33 | 68.77 | 198.96 | 94.38 | 52.67 | 38.92 | 332.14 | PHASE |
| 214 | .27 | 9.22 | 580 | 10.95 | .67 | 2.68 | 1.57 | 1.76 | 1.68 | 1.31 | .76 | AMP |
| 215 | 1.29 | 15.19 | 580 | 217.68 | 186.83 | 64.38 | 245.44 | 46.85 | 61.48 | 86.56 | 53.23 | PHASE |
| 216 | 2.18 | 19.46 | 580 | 16.88 | 1.63 | .57 | .27 | .83 | 6.39 | 3.68 | 2.84 | AMP |
| 217 | 3.32 | 25.48 | 580 | 212.65 | 163.16 | 89.73 | 342.84 | 75.65 | 121.67 | 151.29 | 164.96 | PHASE |
| 218 | -3.3 | 6.82 | 580 | 3.79 | 2.22 | .62 | .59 | .31 | .37 | .16 | .84 | AMP |
| 219 | .85 | 7.84 | 580 | 251.63 | 115.98 | 68.86 | 194.48 | 174.39 | 2.89 | 354.17 | 324.42 | PHASE |
| 220 | .66 | 18.38 | 580 | 4.51 | 2.28 | 1.85 | .54 | .29 | .34 | .17 | .17 | AMP |
| 221 | .77 | 11.63 | 580 | 243.59 | 128.72 | 56.93 | 178.85 | 149.14 | 6.44 | 359.98 | 2.46 | PHASE |
| 222 | .77 | 11.63 | 580 | 5.37 | 2.45 | 1.54 | .52 | .68 | .45 | .28 | .22 | AMP |
| 223 | 1.23 | 14.48 | 580 | 238.68 | 129.27 | 61.59 | 178.38 | 148.28 | 14.95 | 15.29 | 358.69 | PHASE |
| | | | | 6.65 | 2.56 | 2.38 | .66 | .78 | .56 | .16 | .16 | AMP |
| | | | | 232.68 | 134.97 | 58.34 | 174.77 | 149.23 | 22.88 | 23.11 | 334.82 | PHASE |
| | | | | 9.76 | 2.26 | 3.68 | 1.68 | .89 | 1.48 | .59 | .49 | AMP |
| | | | | 226.78 | 149.84 | 62.13 | 232.57 | 351.68 | 46.86 | 88.72 | 66.38 | PHASE |
| | | | | 12.89 | 2.38 | 4.27 | 2.19 | 3.58 | 3.83 | 1.32 | 1.25 | AMP |
| | | | | 225.18 | 153.87 | 66.93 | 278.98 | 39.67 | 78.28 | 118.78 | 122.16 | PHASE |
| | | | | 14.61 | 2.69 | 5.78 | 1.72 | 6.29 | 4.94 | 2.38 | 1.81 | AMP |
| | | | | 221.86 | 144.51 | 69.68 | 298.24 | 58.25 | 99.41 | 148.97 | 148.85 | PHASE |
| | | | | 3.68 | 2.12 | .92 | .53 | .32 | .29 | .22 | .08 | AMP |
| | | | | 259.24 | 128.27 | 87.97 | 214.98 | 165.84 | 21.16 | 25.28 | 348.55 | PHASE |
| | | | | 4.31 | 2.17 | 1.26 | .51 | .54 | .35 | .22 | .18 | AMP |
| | | | | 258.81 | 129.72 | 81.26 | 282.85 | 135.77 | 14.13 | 31.84 | 12.78 | PHASE |
| | | | | 5.28 | 2.48 | 1.66 | .68 | .65 | .57 | .13 | .21 | AMP |
| | | | | 244.48 | 134.76 | 73.88 | 281.96 | 127.19 | 27.82 | 44.71 | 17.55 | PHASE |
| | | | | 6.46 | 3.89 | 2.31 | .85 | .66 | .66 | .88 | .24 | AMP |
| | | | | 238.92 | 135.48 | 66.84 | 213.95 | 114.79 | 27.13 | 346.18 | 1.26 | PHASE |
| | | | | 7.28 | 3.35 | 2.82 | .88 | .48 | .71 | .03 | .26 | AMP |
| | | | | 233.15 | 129.95 | 55.68 | 283.82 | 82.87 | 18.12 | 5.54 | 18.58 | PHASE |
| | | | | 9.37 | 3.24 | 3.57 | 1.62 | .75 | 1.23 | .32 | .78 | AMP |
| | | | | 227.81 | 136.99 | 56.23 | 218.88 | 345.18 | 5.43 | 37.63 | 29.95 | PHASE |

TABLE VI.- Continued

(c) $\mu = 0.30$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 224 | .3 | 2.6 | -2.5 | .03175 | .00480 | .00082 |
| 225 | -.3 | 3.6 | -.4 | .05001 | .00605 | .00068 |
| 226 | -.7 | 4.8 | 1.6 | .06483 | .00684 | .00088 |
| 227 | -1.1 | 5.9 | 3.6 | .07985 | .00746 | .00124 |
| 228 | -1.6 | 7.0 | 5.6 | .09375 | .00774 | .00188 |
| 229 | -2.2 | 8.3 | 7.6 | .10525 | .00732 | .00313 |
| 230 | -2.5 | 9.5 | 9.6 | .11128 | .00680 | .00505 |
| 231 | 1.4 | 2.7 | -.4 | .03205 | .00197 | .00146 |
| 232 | .6 | 3.5 | 1.6 | .04902 | .00181 | .00165 |
| 233 | -.2 | 4.4 | 3.6 | .06544 | .00159 | .00208 |
| 234 | -.9 | 5.6 | 5.5 | .07915 | .00089 | .00281 |
| 235 | -1.6 | 6.8 | 7.6 | .09245 | -.00011 | .00377 |
| 236 | -2.2 | 7.9 | 9.5 | .10384 | -.00113 | .00524 |
| 237 | -2.6 | 8.5 | 10.6 | .10711 | -.00181 | .00630 |
| 238 | 1.1 | 2.6 | 1.6 | .02668 | -.00067 | .00202 |
| 239 | .4 | 3.7 | 3.6 | .04379 | -.00235 | .00263 |
| 240 | -.2 | 4.6 | 5.6 | .05938 | -.00389 | .00341 |
| 241 | -.9 | 5.7 | 7.6 | .07376 | -.00557 | .00437 |
| 242 | -1.5 | 6.9 | 9.6 | .08717 | -.00744 | .00558 |
| 243 | -2.4 | 8.1 | 11.7 | .09880 | -.00972 | .00732 |
| 244 | -2.9 | 8.8 | 12.6 | .10027 | -.01074 | .00838 |
| 245 | -1.1 | 6.0 | 7.2 | .06868 | -.00595 | .00416 |
| 246 | .7 | 4.4 | 5.6 | .03864 | -.00568 | .00347 |
| 247 | -.2 | 5.4 | 7.6 | .05330 | -.00847 | .00465 |
| 248 | -.8 | 6.5 | 9.5 | .06634 | -.01117 | .00593 |
| 249 | -1.7 | 7.7 | 11.6 | .08089 | -.01424 | .00750 |
| 250 | -2.4 | 8.8 | 13.6 | .09251 | -.01708 | .00944 |
| 251 | -2.8 | 9.6 | 14.6 | .09620 | -.01831 | .01046 |

TABLE VI.- Continued

(c) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 44.61 | 24.63 | 600 | 11.06 | 11.24 | 5.91 | 3.42 | 3.21 | 2.56 | 2.59 | .56 |
| | | | | 139.58 | 328.37 | 91.32 | 35.59 | 29.22 | 306.42 | 233.07 | 159.54 |
| 225 | 47.12 | 23.12 | 600 | 11.07 | 10.46 | 4.87 | 2.89 | 3.32 | 2.18 | 2.54 | .33 |
| | | | | 139.77 | 328.96 | 87.10 | 42.59 | 28.13 | 303.71 | 237.56 | 189.09 |
| 226 | 49.11 | 22.13 | 600 | 10.99 | 9.74 | 4.52 | 2.91 | 3.78 | 2.50 | 2.62 | .65 |
| | | | | 136.98 | 326.94 | 75.95 | 43.78 | 2.31 | 286.11 | 239.25 | 186.56 |
| 227 | 51.02 | 21.82 | 600 | 10.75 | 9.33 | 4.46 | 2.89 | 4.50 | 2.91 | 2.94 | .80 |
| | | | | 134.85 | 333.16 | 77.97 | 54.85 | 350.68 | 290.94 | 255.80 | 197.03 |
| 228 | 52.83 | 23.36 | 600 | 10.32 | 8.98 | 4.25 | 2.55 | 4.73 | 2.85 | 2.77 | 1.37 |
| | | | | 129.97 | 343.63 | 77.84 | 62.58 | 350.26 | 302.78 | 273.23 | 215.66 |
| 229 | 54.24 | 28.17 | 600 | 9.99 | 9.31 | 3.29 | 2.65 | 5.54 | 3.27 | 4.19 | 2.80 |
| | | | | 112.95 | 343.25 | 67.86 | 46.55 | 332.59 | 279.26 | 255.74 | 189.84 |
| 230 | 54.70 | 31.12 | 600 | 10.93 | 12.65 | .56 | 2.10 | 7.10 | 4.59 | 1.25 | 2.39 |
| | | | | 98.57 | 340.88 | 249.42 | 51.65 | 322.50 | 322.74 | 267.23 | 179.42 |
| 231 | 45.54 | 25.00 | 600 | 10.31 | 11.39 | 6.00 | 3.37 | 3.46 | 2.00 | 2.30 | .43 |
| | | | | 144.31 | 333.90 | 92.54 | 35.74 | 53.72 | 322.17 | 226.71 | 15.69 |
| 232 | 47.91 | 22.16 | 600 | 9.80 | 10.46 | 4.82 | 2.73 | 3.71 | 1.53 | 2.16 | .22 |
| | | | | 145.18 | 337.88 | 95.53 | 50.97 | 46.96 | 319.29 | 240.11 | 5.72 |
| 233 | 50.30 | 19.24 | 600 | 9.31 | 9.53 | 3.72 | 2.74 | 3.88 | 1.45 | 2.06 | .30 |
| | | | | 139.03 | 333.67 | 87.51 | 57.40 | 24.38 | 207.64 | 232.64 | 202.38 |
| 234 | 52.43 | 18.28 | 600 | 8.96 | 9.24 | 3.13 | 2.57 | 3.39 | 1.40 | 1.94 | .71 |
| | | | | 134.92 | 340.86 | 100.06 | 04.06 | 31.61 | 279.75 | 245.00 | 161.01 |
| 235 | 54.35 | 20.14 | 600 | 8.79 | 9.61 | 2.81 | 2.63 | 3.00 | 1.89 | 2.01 | 1.27 |
| | | | | 122.07 | 338.10 | 91.21 | 71.54 | 350.16 | 259.94 | 234.44 | 157.51 |
| 236 | 55.89 | 26.92 | 600 | 8.94 | 9.81 | 1.91 | 2.87 | 4.15 | 3.55 | 3.21 | 2.29 |
| | | | | 106.09 | 342.82 | 88.81 | 46.58 | 311.40 | 267.00 | 250.59 | 190.81 |
| 237 | 56.27 | 33.39 | 600 | 9.55 | 11.27 | .87 | 3.45 | 6.02 | 4.55 | 2.54 | 2.39 |
| | | | | 94.66 | 340.23 | 154.33 | 49.96 | 304.89 | 293.00 | 285.25 | 200.27 |
| 238 | 46.49 | 22.21 | 600 | 8.68 | 11.30 | 5.65 | 3.90 | 2.15 | .88 | 1.44 | .33 |
| | | | | 147.03 | 344.98 | 109.59 | 45.53 | 85.15 | 346.29 | 232.56 | 18.58 |
| 239 | 48.94 | 20.86 | 600 | 8.30 | 10.87 | 4.92 | 3.49 | 2.00 | .54 | 1.51 | .42 |
| | | | | 141.28 | 335.59 | 91.32 | 24.35 | 58.00 | 309.79 | 189.98 | 11.87 |
| 240 | 51.42 | 19.15 | 600 | 7.81 | 10.36 | 4.14 | 2.97 | 1.74 | .34 | 1.68 | .21 |
| | | | | 136.89 | 337.55 | 93.70 | 30.43 | 52.20 | 278.94 | 197.26 | 346.69 |
| 241 | 53.66 | 18.52 | 600 | 7.64 | 10.61 | 3.59 | 2.80 | 1.38 | .60 | 1.66 | .19 |
| | | | | 131.24 | 342.25 | 101.07 | 42.45 | 70.40 | 218.68 | 216.59 | 11.27 |
| 242 | 55.90 | 17.90 | 600 | 7.39 | 10.43 | 3.12 | 2.14 | .93 | .99 | 1.75 | .20 |
| | | | | 115.91 | 338.93 | 99.98 | 36.45 | 59.04 | 206.46 | 195.53 | 66.78 |
| 243 | 57.81 | 25.42 | 600 | 7.92 | 10.55 | 1.94 | 2.92 | 1.61 | 2.00 | 2.52 | .89 |
| | | | | 99.64 | 349.47 | 101.74 | 21.58 | 276.65 | 265.96 | 254.48 | 190.70 |
| 244 | 58.40 | 28.64 | 600 | 8.71 | 11.22 | 1.41 | 3.92 | 2.65 | 3.62 | 2.19 | 1.17 |
| | | | | 88.47 | 345.84 | 120.67 | 25.88 | 290.13 | 289.74 | 274.55 | 209.91 |
| 245 | 53.07 | 18.81 | 600 | 7.90 | 10.50 | 3.65 | 2.78 | 1.65 | .25 | 1.65 | .17 |
| | | | | 129.70 | 336.15 | 89.12 | 23.65 | 47.17 | 254.41 | 192.09 | 312.95 |
| 246 | 49.81 | 16.52 | 600 | 7.24 | 8.74 | 3.59 | 3.08 | 1.88 | .42 | .87 | .38 |
| | | | | 142.75 | 347.19 | 95.44 | 29.40 | 48.81 | 329.80 | 224.55 | 278.35 |
| 247 | 52.19 | 15.59 | 600 | 6.87 | 8.72 | 2.73 | 2.58 | 1.99 | .14 | .79 | .50 |
| | | | | 135.56 | 348.14 | 94.00 | 24.73 | 34.74 | 293.10 | 202.33 | 278.92 |
| 248 | 54.50 | 15.95 | 600 | 6.73 | 9.18 | 2.10 | 2.59 | 1.67 | .29 | .92 | .41 |
| | | | | 125.55 | 346.07 | 83.24 | 18.10 | 27.05 | 197.79 | 197.28 | 265.01 |
| 249 | 56.95 | 16.61 | 600 | 6.73 | 9.59 | 1.33 | 2.44 | 1.78 | .42 | .94 | .43 |
| | | | | 109.58 | 343.28 | 74.00 | 4.68 | 12.72 | 191.03 | 180.01 | 236.27 |
| 250 | 58.97 | 22.21 | 600 | 7.74 | 10.27 | .52 | 3.14 | .96 | 1.63 | 1.84 | .76 |
| | | | | 85.14 | 341.40 | 71.41 | 320.81 | 255.90 | 201.19 | 197.95 | 183.35 |
| 251 | 59.55 | 26.36 | 600 | 9.16 | 10.69 | .14 | 3.90 | 2.43 | 2.18 | 2.13 | .90 |
| | | | | 73.76 | 335.45 | 124.52 | 324.27 | 244.90 | 223.95 | 225.24 | 188.54 |

TABLE VI.- Continued

(c) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 48.34 | 45.67 | 688 | 17.89 | 7.47 | 9.99 | 4.62 | 6.96 | 13.81 | 1.68 | .45 |
| | | | | 259.46 | 144.63 | 258.88 | 184.53 | 254.29 | 242.66 | 174.39 | 45.15 |
| 225 | 45.58 | 63.47 | 688 | 31.35 | 18.13 | 13.58 | 5.28 | 18.88 | 15.83 | 1.68 | .81 |
| | | | | 282.98 | 162.77 | 274.55 | 183.62 | 258.56 | 288.51 | 194.93 | 81.51 |
| 226 | 42.46 | 69.32 | 688 | 43.98 | 13.58 | 12.49 | 5.62 | 12.13 | 7.75 | 1.63 | .27 |
| | | | | 382.53 | 168.64 | 267.57 | 82.82 | 266.88 | 315.76 | 55.87 | 29.91 |
| 227 | 39.74 | 71.84 | 688 | 58.61 | 15.28 | 14.59 | 7.15 | 18.38 | 6.62 | .88 | 1.86 |
| | | | | 328.48 | 165.87 | 263.31 | 88.22 | 288.42 | 324.85 | 228.27 | 23.17 |
| 228 | 37.58 | 86.27 | 688 | 74.56 | 14.68 | 19.17 | 8.86 | 7.23 | 6.45 | 4.69 | 1.38 |
| | | | | 334.49 | 172.75 | 269.88 | 88.67 | 329.63 | 359.47 | 291.19 | 47.23 |
| 229 | 37.27 | 113.48 | 688 | 89.28 | 15.52 | 24.74 | 18.11 | 4.28 | 5.47 | 5.23 | 2.13 |
| | | | | 348.67 | 171.71 | 264.67 | 61.46 | 338.38 | 5.83 | 388.13 | 48.33 |
| 230 | 42.22 | 144.84 | 688 | 94.66 | 26.71 | 38.71 | 18.31 | 13.38 | 24.35 | 6.61 | 3.62 |
| | | | | 358.89 | 197.53 | 274.97 | 84.67 | 181.79 | 284.84 | 227.91 | 27.43 |
| 231 | 46.95 | 48.29 | 688 | 19.25 | 9.83 | 9.15 | 3.73 | 8.78 | 12.87 | 2.55 | 1.28 |
| | | | | 284.43 | 157.27 | 283.69 | 127.32 | 298.31 | 247.25 | 149.66 | 48.47 |
| 232 | 45.58 | 53.39 | 688 | 31.21 | 13.51 | 18.42 | 2.76 | 18.36 | 4.95 | .75 | 1.29 |
| | | | | 387.67 | 168.85 | 285.76 | 72.14 | 298.97 | 272.87 | 113.94 | 68.16 |
| 233 | 44.89 | 68.52 | 688 | 45.29 | 15.13 | 11.28 | 5.72 | 9.98 | 7.72 | .72 | 1.29 |
| | | | | 323.49 | 168.84 | 261.15 | 59.78 | 294.27 | 287.27 | 94.31 | 53.99 |
| 234 | 42.98 | 77.83 | 688 | 59.98 | 15.27 | 14.52 | 7.29 | 9.89 | 7.66 | 1.89 | 1.24 |
| | | | | 336.81 | 188.79 | 268.68 | 73.62 | 388.53 | 329.48 | 354.82 | 72.18 |
| 235 | 42.15 | 97.89 | 688 | 76.77 | 16.23 | 28.68 | 9.18 | 6.38 | 6.53 | 3.45 | 1.77 |
| | | | | 348.65 | 187.47 | 263.13 | 59.85 | 388.79 | 335.26 | 384.79 | 13.86 |
| 236 | 43.48 | 121.43 | 688 | 93.89 | 19.64 | 28.77 | 12.31 | 3.84 | 6.38 | 2.85 | 1.61 |
| | | | | 352.93 | 195.55 | 267.83 | 53.37 | 158.74 | 64.23 | 2.99 | 16.49 |
| 237 | 46.15 | 136.88 | 688 | 96.63 | 26.38 | 31.74 | 12.23 | 14.13 | 11.78 | 4.36 | 2.48 |
| | | | | 358.73 | 283.23 | 267.56 | 68.58 | 182.46 | 178.14 | 158.35 | 349.35 |
| 238 | 46.89 | 44.72 | 688 | 11.54 | 18.77 | 7.23 | 1.69 | 4.53 | 16.81 | 2.16 | .58 |
| | | | | 292.39 | 169.86 | 385.62 | 81.81 | 291.44 | 222.81 | 132.79 | 29.63 |
| 239 | 47.43 | 49.96 | 688 | 23.43 | 16.18 | 9.79 | 2.69 | 5.88 | 11.24 | 1.48 | .27 |
| | | | | 313.51 | 172.39 | 283.91 | 2.61 | 259.55 | 198.73 | 88.85 | 39.29 |
| 240 | 47.16 | 68.72 | 688 | 39.52 | 19.22 | 13.73 | 4.88 | 6.59 | 11.35 | .57 | .34 |
| | | | | 331.27 | 185.83 | 266.46 | 21.85 | 273.99 | 245.58 | 226.66 | 76.63 |
| 241 | 46.97 | 93.84 | 688 | 56.19 | 21.71 | 18.96 | 7.18 | 7.68 | 13.59 | 1.29 | .29 |
| | | | | 343.88 | 282.31 | 271.65 | 43.95 | 282.77 | 288.88 | 256.91 | 328.57 |
| 242 | 46.76 | 116.77 | 688 | 78.84 | 23.28 | 25.17 | 9.85 | 6.29 | 12.79 | 2.87 | .78 |
| | | | | 347.85 | 286.18 | 267.28 | 45.21 | 254.64 | 286.59 | 263.98 | 284.89 |
| 243 | 48.69 | 138.61 | 688 | 97.34 | 27.89 | 33.89 | 18.25 | 6.69 | 6.99 | .84 | 1.29 |
| | | | | 359.33 | 222.81 | 279.38 | 61.94 | 286.84 | 26.67 | 47.82 | 353.68 |
| 244 | 51.74 | 147.17 | 688 | 184.67 | 34.28 | 37.26 | 9.69 | 11.75 | 8.39 | 5.38 | 1.62 |
| | | | | 2.41 | 222.82 | 276.54 | 68.54 | 195.67 | 129.25 | 119.13 | 14.89 |
| 245 | 47.18 | 88.59 | 688 | 48.86 | 28.99 | 17.78 | 5.84 | 7.51 | 12.63 | .72 | .28 |
| | | | | 332.29 | 193.78 | 261.95 | 22.79 | 261.95 | 243.78 | 216.94 | 42.55 |
| 246 | 48.32 | 52.64 | 687 | 23.29 | 16.21 | 8.35 | 4.87 | 4.92 | 13.85 | 1.93 | .25 |
| | | | | 335.96 | 188.72 | 288.89 | 27.38 | 246.45 | 228.87 | 183.95 | 198.23 |
| 247 | 49.68 | 75.56 | 688 | 39.92 | 19.58 | 13.81 | 5.63 | 5.91 | 13.87 | .81 | .28 |
| | | | | 342.98 | 283.45 | 266.45 | 23.14 | 252.71 | 265.94 | 135.69 | 186.79 |
| 248 | 58.92 | 98.53 | 688 | 68.84 | 22.83 | 18.34 | 7.39 | 7.18 | 13.36 | .49 | .26 |
| | | | | 347.88 | 215.46 | 253.92 | 27.12 | 235.68 | 279.15 | 168.98 | 277.38 |
| 249 | 52.28 | 125.49 | 688 | 84.39 | 25.97 | 24.28 | 8.36 | 8.59 | 12.58 | .48 | .37 |
| | | | | 349.62 | 215.51 | 253.68 | 25.71 | 213.34 | 281.84 | 256.97 | 273.29 |
| 250 | 54.67 | 158.53 | 688 | 115.96 | 32.86 | 31.95 | 8.73 | 9.50 | 8.88 | 2.67 | .68 |
| | | | | 353.58 | 219.27 | 254.32 | 13.85 | 178.11 | 334.34 | 343.28 | 388.35 |
| 251 | 55.79 | 181.23 | 682 | 129.89 | 43.16 | 35.33 | 5.42 | 11.86 | 18.18 | 5.87 | 1.88 |
| | | | | 356.19 | 216.48 | 253.69 | 337.87 | 138.53 | 39.23 | 16.98 | 382.88 |

TABLE VI.- Continued

(c) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 6.81 | 6.35 | 688 | 2.25 | 2.49 | 1.31 | .83 | .23 | .29 | .15 | .13 |
| | | | | 49.88 | 282.42 | 148.52 | 23.98 | 158.41 | 358.81 | 289.76 | 114.73 |
| 225 | 5.88 | 6.48 | 688 | 3.17 | 2.25 | 1.18 | 1.82 | .37 | .19 | .17 | .25 |
| | | | | 47.65 | 282.35 | 156.96 | 36.58 | 183.21 | 14.29 | 248.68 | 178.24 |
| 226 | 3.98 | 6.17 | 688 | 4.11 | 1.81 | 1.13 | .56 | .24 | .87 | .86 | .24 |
| | | | | 43.11 | 276.48 | 159.73 | 48.16 | 278.89 | 315.83 | 236.87 | 179.88 |
| 227 | 2.52 | 7.29 | 688 | 5.61 | .99 | 1.58 | .45 | .48 | .17 | .17 | .22 |
| | | | | 39.61 | 278.28 | 191.31 | 26.58 | 253.44 | 343.58 | 253.17 | 196.17 |
| 228 | .88 | 18.39 | 688 | 7.87 | .36 | 1.97 | .88 | .83 | .46 | .18 | .25 |
| | | | | 38.18 | 176.88 | 221.79 | 3.64 | 324.53 | 51.11 | 278.25 | 289.69 |
| 229 | -1.74 | 16.56 | 688 | 11.78 | 1.69 | 2.87 | 1.38 | .68 | .38 | .98 | .28 |
| | | | | 38.74 | 115.28 | 233.99 | 11.51 | 285.61 | 251.62 | 274.26 | 227.55 |
| 238 | -5.72 | 38.48 | 688 | 17.18 | 1.14 | 5.71 | .88 | 6.81 | 5.56 | 3.62 | 2.27 |
| | | | | 29.49 | 285.18 | 289.73 | 345.27 | 277.98 | 326.62 | 343.18 | 31.37 |
| 231 | 5.21 | 6.37 | 688 | 1.91 | 2.58 | 1.34 | 1.89 | .13 | .27 | .31 | .22 |
| | | | | 61.45 | 293.29 | 148.96 | 19.53 | 223.77 | 341.86 | 224.93 | 149.13 |
| 232 | 4.48 | 5.66 | 688 | 2.45 | 2.27 | 1.11 | .58 | .41 | .17 | .25 | .22 |
| | | | | 59.83 | 382.86 | 156.91 | 36.73 | 283.28 | 272.88 | 227.51 | 193.75 |
| 233 | 3.54 | 5.19 | 688 | 3.29 | 1.71 | .88 | .46 | .36 | .29 | .25 | .27 |
| | | | | 49.76 | 383.48 | 181.68 | 28.19 | 268.39 | 221.56 | 219.81 | 178.78 |
| 234 | 2.45 | 6.66 | 688 | 4.67 | 1.38 | 1.34 | .74 | .31 | .29 | .38 | .28 |
| | | | | 48.18 | 313.59 | 238.65 | 37.82 | 254.29 | 217.15 | 234.38 | 221.24 |
| 235 | .87 | 18.65 | 688 | 7.13 | .61 | 2.46 | 1.36 | .72 | .43 | .34 | .25 |
| | | | | 41.15 | 383.74 | 248.12 | 29.83 | 217.67 | 252.53 | 238.48 | 218.16 |
| 236 | -1.53 | 17.58 | 688 | 11.25 | .91 | 3.88 | 2.29 | 3.58 | 2.39 | 1.56 | .94 |
| | | | | 35.89 | 98.66 | 245.68 | 84.84 | 282.18 | 256.81 | 289.65 | 329.95 |
| 237 | -3.46 | 24.47 | 688 | 14.16 | .84 | 4.71 | 1.84 | 6.48 | 4.81 | 3.88 | 2.23 |
| | | | | 32.18 | 123.85 | 265.17 | 119.54 | 238.35 | 285.75 | 314.44 | 359.68 |
| 238 | 4.37 | 5.14 | 688 | 1.88 | 2.47 | 1.87 | .72 | .15 | .11 | .22 | .19 |
| | | | | 83.53 | 321.28 | 198.58 | 17.88 | 242.35 | 181.89 | 283.89 | 97.88 |
| 239 | 3.79 | 5.89 | 688 | 2.41 | 2.81 | 1.19 | .58 | .19 | .14 | .15 | .11 |
| | | | | 69.91 | 312.19 | 189.19 | 18.83 | 269.68 | 148.86 | 133.73 | 77.26 |
| 248 | 3.18 | 6.75 | 688 | 3.19 | 2.87 | 1.54 | .69 | .12 | .21 | .17 | .15 |
| | | | | 68.24 | 316.47 | 215.99 | 16.34 | 152.93 | 178.43 | 188.11 | 131.52 |
| 241 | 2.17 | 8.44 | 688 | 4.54 | 2.92 | 2.33 | 1.37 | .63 | .49 | .24 | .18 |
| | | | | 55.21 | 328.74 | 242.41 | 34.89 | 151.78 | 228.27 | 264.25 | 152.51 |
| 242 | .96 | 11.81 | 688 | 6.78 | 2.31 | 3.63 | 1.97 | .96 | .78 | .37 | .28 |
| | | | | 45.26 | 317.41 | 239.57 | 22.99 | 146.63 | 223.48 | 277.82 | 131.42 |
| 243 | -1.87 | 18.23 | 688 | 18.63 | 1.15 | 3.99 | 3.87 | 3.63 | 2.26 | 1.16 | .63 |
| | | | | 42.75 | 355.48 | 252.88 | 98.66 | 197.28 | 268.59 | 385.84 | 331.89 |
| 244 | -2.51 | 23.81 | 688 | 12.98 | 1.28 | 5.89 | 2.66 | 5.56 | 4.89 | 2.38 | 1.58 |
| | | | | 37.99 | 338.88 | 282.62 | 111.99 | 214.48 | 273.21 | 312.97 | 346.19 |
| 245 | 2.41 | 7.87 | 688 | 3.95 | 3.15 | 2.87 | .94 | .37 | .34 | .21 | .14 |
| | | | | 55.39 | 314.36 | 222.84 | 12.77 | 128.67 | 184.75 | 211.92 | 128.38 |
| 246 | 3.38 | 5.84 | 687 | 2.34 | 2.68 | 1.46 | .68 | .89 | .17 | .16 | .16 |
| | | | | 69.99 | 322.57 | 225.14 | 34.47 | 239.22 | 173.23 | 193.84 | 128.78 |
| 247 | 2.72 | 6.87 | 688 | 2.99 | 2.92 | 1.75 | .69 | .27 | .33 | .19 | .13 |
| | | | | 62.53 | 324.43 | 236.22 | 37.52 | 223.16 | 191.66 | 233.82 | 145.15 |
| 248 | 2.14 | 7.82 | 688 | 3.86 | 3.38 | 2.11 | .98 | .52 | .57 | .27 | .13 |
| | | | | 55.72 | 322.55 | 233.67 | 38.63 | 194.87 | 195.93 | 251.94 | 148.32 |
| 249 | 1.46 | 9.36 | 688 | 5.24 | 3.47 | 2.84 | 1.88 | .78 | .79 | .31 | .15 |
| | | | | 49.78 | 317.78 | 239.22 | 28.13 | 164.78 | 191.82 | 251.86 | 135.79 |
| 258 | -.14 | 15.38 | 688 | 8.81 | 2.63 | 3.94 | 2.73 | 2.55 | 1.71 | .78 | .38 |
| | | | | 39.14 | 322.84 | 235.85 | 39.68 | 137.11 | 183.12 | 238.28 | 233.28 |
| 251 | -1.17 | 19.51 | 682 | 18.88 | 2.31 | 4.58 | 3.13 | 4.15 | 2.64 | 1.27 | .83 |
| | | | | 34.21 | 328.29 | 225.69 | 58.57 | 143.43 | 189.18 | 239.98 | 259.32 |

TABLE VI.- Continued

(c) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 28.83 | 28.41 | 688 | 15.73 | 13.73 | 6.63 | 2.13 | 1.88 | .66 | .15 | .84 AMP |
| | | | | 137.16 | 338.52 | 88.48 | 35.64 | 35.86 | 318.21 | 215.97 | 242.87 PHASE |
| 225 | 31.13 | 26.81 | 688 | 16.36 | 12.48 | 5.54 | 1.68 | 1.94 | .46 | .32 | .17 AMP |
| | | | | 138.85 | 338.75 | 74.73 | 48.17 | 23.83 | 381.84 | 282.88 | 158.33 PHASE |
| 226 | 33.14 | 26.63 | 688 | 16.84 | 11.62 | 5.33 | 1.69 | 2.19 | .64 | .38 | .12 AMP |
| | | | | 136.18 | 327.48 | 68.61 | 58.88 | 2.75 | 282.83 | 214.18 | 157.39 PHASE |
| 227 | 35.11 | 26.63 | 688 | 17.32 | 11.17 | 5.81 | 1.88 | 2.75 | .88 | .42 | .13 AMP |
| | | | | 136.18 | 332.32 | 62.13 | 68.88 | 351.78 | 291.78 | 213.57 | 165.98 PHASE |
| 228 | 37.83 | 25.95 | 688 | 17.54 | 18.92 | 6.85 | 1.58 | 2.98 | .72 | .46 | .81 AMP |
| | | | | 135.88 | 339.79 | 63.94 | 88.85 | 1.52 | 297.52 | 238.53 | 187.93 PHASE |
| 229 | 38.73 | 26.78 | 688 | 17.41 | 11.66 | 5.55 | 1.64 | 3.64 | .75 | .38 | .48 AMP |
| | | | | 128.23 | 336.83 | 55.26 | 76.17 | 336.63 | 285.75 | 216.84 | 359.77 PHASE |
| 230 | 39.62 | 33.92 | 688 | 17.14 | 17.58 | 2.79 | 1.84 | 4.47 | .83 | .56 | .28 AMP |
| | | | | 126.15 | 335.62 | 72.57 | 188.86 | 332.88 | 316.32 | 173.33 | 137.52 PHASE |
| 231 | 38.86 | 27.35 | 688 | 15.19 | 14.28 | 6.92 | 2.89 | 2.33 | .58 | .33 | .24 AMP |
| | | | | 139.61 | 337.19 | 81.58 | 35.56 | 58.86 | 338.98 | 224.96 | 287.72 PHASE |
| 232 | 32.37 | 25.94 | 688 | 15.52 | 12.99 | 5.61 | 1.76 | 2.35 | .51 | .28 | .21 AMP |
| | | | | 141.89 | 341.26 | 82.25 | 59.98 | 47.31 | 317.84 | 228.29 | 233.59 PHASE |
| 233 | 34.67 | 24.61 | 688 | 15.69 | 11.65 | 4.69 | 2.81 | 2.42 | .44 | .43 | .88 AMP |
| | | | | 137.32 | 336.36 | 71.82 | 72.71 | 23.51 | 284.77 | 285.75 | 258.65 PHASE |
| 234 | 36.79 | 24.88 | 688 | 15.83 | 11.22 | 4.36 | 2.84 | 2.31 | .44 | .42 | .89 AMP |
| | | | | 137.68 | 341.74 | 81.82 | 182.81 | 28.12 | 278.35 | 221.88 | 272.86 PHASE |
| 235 | 38.67 | 25.85 | 688 | 16.21 | 11.74 | 4.63 | 2.87 | 2.25 | .61 | .43 | .15 AMP |
| | | | | 131.56 | 337.18 | 72.46 | 94.81 | 356.19 | 248.98 | 289.71 | 336.66 PHASE |
| 236 | 48.66 | 27.31 | 688 | 16.31 | 12.83 | 4.61 | 1.88 | 3.12 | .88 | .28 | .43 AMP |
| | | | | 128.33 | 338.29 | 66.87 | 78.73 | 321.76 | 247.25 | 198.51 | 43.84 PHASE |
| 237 | 41.38 | 38.79 | 688 | 16.24 | 15.31 | 3.58 | 2.23 | 4.32 | .96 | .56 | .56 AMP |
| | | | | 124.81 | 336.39 | 79.24 | 78.54 | 318.28 | 282.55 | 142.59 | 77.69 PHASE |
| 238 | 31.85 | 26.39 | 688 | 13.28 | 14.35 | 6.79 | 2.64 | 1.43 | .38 | .24 | .28 AMP |
| | | | | 141.54 | 348.51 | 188.24 | 44.44 | 67.77 | 338.13 | 255.18 | 288.75 PHASE |
| 239 | 34.38 | 25.48 | 688 | 13.54 | 13.91 | 6.38 | 2.29 | 1.34 | .23 | .19 | .38 AMP |
| | | | | 137.21 | 339.27 | 82.56 | 27.94 | 41.28 | 292.89 | 226.69 | 178.28 PHASE |
| 240 | 36.81 | 25.14 | 688 | 13.93 | 13.85 | 5.74 | 2.88 | 1.15 | .21 | .22 | .27 AMP |
| | | | | 136.21 | 348.42 | 81.74 | 39.16 | 38.83 | 248.88 | 284.48 | 172.22 PHASE |
| 241 | 39.86 | 24.94 | 688 | 14.48 | 13.88 | 5.59 | 1.88 | .77 | .41 | .24 | .28 AMP |
| | | | | 135.98 | 344.78 | 88.58 | 57.73 | 33.86 | 231.87 | 231.88 | 189.65 PHASE |
| 242 | 41.34 | 24.84 | 688 | 14.68 | 12.75 | 5.52 | 1.37 | .61 | .52 | .24 | .12 AMP |
| | | | | 129.45 | 348.94 | 83.85 | 62.33 | 355.26 | 227.79 | 268.83 | 193.52 PHASE |
| 243 | 43.55 | 25.17 | 688 | 14.51 | 13.43 | 5.11 | 1.66 | 1.69 | .81 | .18 | .16 AMP |
| | | | | 128.83 | 348.51 | 85.86 | 33.84 | 387.88 | 269.19 | 24.74 | 63.39 PHASE |
| 244 | 44.35 | 27.98 | 688 | 14.42 | 14.68 | 5.88 | 2.63 | 2.39 | 1.87 | .21 | .38 AMP |
| | | | | 123.88 | 344.87 | 87.85 | 38.18 | 388.11 | 285.41 | 52.34 | 98.88 PHASE |
| 245 | 38.65 | 24.24 | 688 | 14.22 | 13.89 | 5.59 | 1.74 | .95 | .31 | .25 | .29 AMP |
| | | | | 133.52 | 339.52 | 77.38 | 34.43 | 19.58 | 228.31 | 218.49 | 164.87 PHASE |
| 246 | 36.23 | 28.82 | 687 | 11.75 | 11.39 | 5.14 | 1.87 | 1.51 | .27 | .18 | .21 AMP |
| | | | | 139.39 | 358.69 | 87.94 | 23.98 | 33.98 | 281.37 | 196.83 | 157.58 PHASE |
| 247 | 38.58 | 28.68 | 688 | 12.17 | 11.38 | 4.71 | 1.64 | 1.57 | .38 | .23 | .23 AMP |
| | | | | 138.13 | 353.35 | 84.18 | 19.43 | 22.18 | 256.48 | 223.75 | 167.83 PHASE |
| 248 | 48.94 | 21.78 | 688 | 12.74 | 11.95 | 4.56 | 1.48 | 1.37 | .36 | .22 | .25 AMP |
| | | | | 136.41 | 348.86 | 76.86 | 14.11 | 8.18 | 241.48 | 257.51 | 165.97 PHASE |
| 249 | 43.57 | 22.58 | 688 | 13.17 | 12.39 | 4.25 | 1.18 | 1.48 | .39 | .27 | .16 AMP |
| | | | | 132.64 | 344.54 | 68.27 | .13 | 351.74 | 228.81 | 279.12 | 129.88 PHASE |
| 250 | 45.98 | 23.49 | 688 | 13.54 | 12.88 | 3.89 | 1.82 | 1.33 | .65 | .32 | .15 AMP |
| | | | | 125.12 | 348.29 | 65.38 | 317.84 | 278.73 | 225.92 | 388.87 | 17.72 PHASE |
| 251 | 46.77 | 26.81 | 682 | 13.68 | 13.69 | 4.28 | 2.48 | 2.18 | .81 | .27 | .26 AMP |
| | | | | 119.98 | 334.32 | 62.83 | 326.48 | 261.88 | 236.78 | 329.93 | 12.29 PHASE |

TABLE VI.- Continued

(c) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 32.17 | 47.35 | 608 | 16.27 | 7.83 | 6.77 | 4.74 | 8.36 | 19.47 | 1.94 | .29 AMP |
| | | | | 264.30 | 135.18 | 257.41 | 102.52 | 258.47 | 243.90 | 175.91 | 35.77 PHASE |
| 225 | 29.29 | 62.04 | 608 | 25.59 | 9.66 | 18.91 | 6.32 | 12.05 | 24.09 | 1.50 | .76 AMP |
| | | | | 285.02 | 154.90 | 285.20 | 99.58 | 261.29 | 281.07 | 199.22 | 49.98 PHASE |
| 226 | 25.59 | 61.05 | 608 | 34.51 | 13.04 | 11.10 | 7.55 | 14.37 | 13.06 | 3.85 | .34 AMP |
| | | | | 302.91 | 154.32 | 283.65 | 85.09 | 270.29 | 323.09 | 40.70 | 326.57 PHASE |
| 227 | 22.35 | 66.03 | 608 | 45.83 | 15.29 | 12.59 | 9.17 | 13.46 | 10.90 | 1.02 | 1.76 AMP |
| | | | | 319.75 | 160.15 | 284.51 | 83.50 | 295.71 | 338.21 | 131.74 | 25.47 PHASE |
| 228 | 19.10 | 78.66 | 608 | 50.59 | 15.74 | 16.67 | 10.26 | 11.46 | 11.43 | 6.86 | 2.61 AMP |
| | | | | 333.20 | 167.21 | 291.19 | 82.16 | 338.58 | 13.70 | 287.95 | 51.18 PHASE |
| 229 | 17.31 | 93.06 | 608 | 69.89 | 18.43 | 22.59 | 13.16 | 9.13 | 10.09 | 8.56 | 3.90 AMP |
| | | | | 339.64 | 166.77 | 284.17 | 62.25 | 338.03 | 15.05 | 294.18 | 29.56 PHASE |
| 230 | 20.97 | 124.65 | 608 | 72.74 | 29.03 | 20.64 | 12.84 | 11.75 | 34.20 | 13.05 | 5.42 AMP |
| | | | | 358.16 | 196.50 | 300.39 | 96.23 | 194.93 | 205.42 | 221.23 | 51.56 PHASE |
| 231 | 30.52 | 48.78 | 608 | 16.71 | 7.56 | 6.34 | 3.78 | 10.05 | 17.86 | 4.04 | .81 AMP |
| | | | | 282.99 | 147.73 | 299.73 | 123.25 | 289.03 | 250.17 | 137.02 | 43.61 PHASE |
| 232 | 28.70 | 46.06 | 608 | 25.01 | 11.26 | 8.15 | 3.65 | 11.59 | 7.28 | 1.72 | .46 AMP |
| | | | | 304.46 | 161.42 | 301.15 | 77.86 | 298.74 | 291.97 | 112.74 | 45.21 PHASE |
| 233 | 26.78 | 54.93 | 608 | 34.83 | 13.23 | 9.04 | 7.38 | 12.30 | 11.29 | 2.53 | 1.11 AMP |
| | | | | 320.13 | 161.98 | 280.37 | 66.00 | 294.91 | 297.00 | 122.96 | 27.48 PHASE |
| 234 | 24.72 | 65.86 | 608 | 45.55 | 14.16 | 11.90 | 8.79 | 11.92 | 11.45 | .67 | 1.40 AMP |
| | | | | 333.10 | 174.37 | 280.12 | 80.03 | 311.21 | 339.02 | 267.61 | 56.03 PHASE |
| 235 | 22.67 | 77.24 | 608 | 50.32 | 15.04 | 16.97 | 10.70 | 10.05 | 10.52 | 5.45 | 2.58 AMP |
| | | | | 337.94 | 179.42 | 282.04 | 65.10 | 314.20 | 344.24 | 285.10 | 9.93 PHASE |
| 236 | 22.55 | 95.04 | 608 | 70.17 | 21.13 | 25.03 | 15.52 | .05 | 9.99 | 2.72 | 2.85 AMP |
| | | | | 350.71 | 189.47 | 286.45 | 57.68 | 344.64 | 57.43 | 329.45 | 19.16 PHASE |
| 237 | 24.66 | 120.06 | 608 | 72.31 | 28.05 | 20.15 | 14.66 | 14.42 | 15.50 | 7.94 | 3.70 AMP |
| | | | | 357.55 | 198.33 | 287.93 | 69.33 | 198.52 | 175.64 | 152.28 | .05 PHASE |
| 238 | 29.85 | 47.64 | 608 | 10.47 | 8.34 | 4.81 | 2.12 | 5.22 | 22.74 | 3.09 | .39 AMP |
| | | | | 289.58 | 163.95 | 332.89 | 60.53 | 290.18 | 220.48 | 149.00 | 340.85 PHASE |
| 239 | 29.69 | 44.80 | 608 | 10.30 | 12.06 | 7.05 | 3.11 | 6.62 | 16.11 | 2.55 | .52 AMP |
| | | | | 300.03 | 169.25 | 300.02 | 9.04 | 260.67 | 189.07 | 111.46 | 42.44 PHASE |
| 240 | 28.72 | 55.96 | 608 | 29.52 | 14.70 | 9.44 | 5.38 | 8.04 | 16.32 | 2.12 | .81 AMP |
| | | | | 326.34 | 182.14 | 286.28 | 29.05 | 272.07 | 246.91 | 204.55 | 89.92 PHASE |
| 241 | 27.64 | 78.91 | 608 | 41.60 | 17.08 | 13.71 | 7.59 | 9.44 | 20.45 | 3.46 | .46 AMP |
| | | | | 330.69 | 190.59 | 290.48 | 52.00 | 279.72 | 281.05 | 251.54 | 124.85 PHASE |
| 242 | 26.23 | 98.37 | 608 | 57.03 | 19.39 | 19.61 | 9.60 | 8.25 | 19.98 | 5.19 | .07 AMP |
| | | | | 343.64 | 200.37 | 283.46 | 53.66 | 252.90 | 285.62 | 260.14 | 179.82 PHASE |
| 243 | 26.47 | 111.82 | 608 | 71.76 | 25.25 | 20.52 | 12.30 | 8.32 | 10.38 | 1.45 | 1.06 AMP |
| | | | | 356.78 | 216.22 | 295.03 | 66.55 | 216.54 | 13.65 | 14.09 | 342.42 PHASE |
| 244 | 29.03 | 127.84 | 608 | 76.47 | 31.60 | 31.36 | 12.53 | 15.43 | 9.18 | 9.72 | 1.64 AMP |
| | | | | .73 | 215.46 | 293.71 | 68.93 | 201.00 | 142.02 | 118.63 | 14.59 PHASE |
| 245 | 27.85 | 69.54 | 608 | 36.44 | 16.33 | 12.57 | 6.36 | 9.12 | 18.58 | 2.50 | .77 AMP |
| | | | | 328.00 | 190.17 | 279.84 | 31.05 | 259.44 | 244.54 | 206.37 | 49.73 PHASE |
| 246 | 29.99 | 48.41 | 607 | 16.60 | 12.26 | 5.70 | 4.64 | 5.58 | 18.97 | 3.08 | 1.03 AMP |
| | | | | 331.00 | 188.25 | 315.02 | 29.36 | 246.02 | 227.01 | 109.46 | 109.88 PHASE |
| 247 | 30.57 | 63.13 | 608 | 20.23 | 14.50 | 8.13 | 6.02 | 6.69 | 19.69 | 1.47 | .76 AMP |
| | | | | 338.44 | 202.17 | 283.17 | 25.60 | 254.69 | 264.98 | 172.28 | 121.90 PHASE |
| 248 | 30.87 | 82.22 | 608 | 42.77 | 17.14 | 11.91 | 7.84 | 7.93 | 20.57 | 1.45 | .66 AMP |
| | | | | 343.73 | 209.28 | 274.27 | 27.66 | 237.70 | 276.10 | 216.32 | 99.49 PHASE |
| 249 | 31.08 | 99.17 | 608 | 59.65 | 19.04 | 16.79 | 9.18 | 9.42 | 19.76 | 2.25 | .34 AMP |
| | | | | 346.05 | 214.07 | 267.54 | 27.44 | 213.66 | 277.02 | 252.69 | 76.07 PHASE |
| 250 | 31.77 | 123.56 | 608 | 81.97 | 26.66 | 25.39 | 10.00 | 11.28 | 12.07 | 5.03 | 1.18 AMP |
| | | | | 350.76 | 215.67 | 268.51 | 13.51 | 169.97 | 321.77 | 333.07 | 299.39 PHASE |
| 251 | 32.03 | 143.90 | 602 | 90.91 | 33.37 | 29.40 | 8.23 | 14.03 | 11.43 | 10.43 | 2.34 AMP |
| | | | | 353.09 | 212.20 | 268.60 | 350.51 | 140.18 | 30.06 | 13.52 | 281.70 PHASE |

TABLE VI.- Continued

(c) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 4.86 | 5.12 | 688 | 2.32 | 1.96 | 1.13 | .68 | .22 | .16 | .84 | .87 AMP |
| | | | | 29.36 | 257.77 | 136.65 | .83 | 141.97 | 339.56 | 51.28 | 18.74 PHASE |
| 225 | 3.17 | 5.23 | 688 | 3.15 | 1.77 | 1.88 | .73 | .33 | .17 | .85 | .12 AMP |
| | | | | 38.88 | 259.21 | 142.59 | 7.89 | 149.86 | 22.83 | 236.12 | 119.47 PHASE |
| 226 | 2.15 | 5.88 | 688 | 3.96 | 1.48 | 1.23 | .31 | .21 | .89 | .18 | .13 AMP |
| | | | | 28.13 | 254.99 | 141.61 | 4.92 | 213.68 | 87.48 | 311.74 | 128.28 PHASE |
| 227 | .87 | 6.58 | 688 | 5.22 | .83 | 1.78 | .29 | .48 | .84 | .12 | .12 AMP |
| | | | | 26.74 | 268.56 | 166.25 | 322.66 | 191.82 | 328.53 | 297.42 | 144.97 PHASE |
| 228 | -.78 | 9.25 | 688 | 7.16 | .38 | 2.16 | .86 | .51 | .38 | .84 | .28 AMP |
| | | | | 26.77 | 149.48 | 191.26 | 315.67 | 279.89 | 19.86 | 26.94 | 168.83 PHASE |
| 229 | -2.93 | 14.42 | 688 | 18.46 | 1.49 | 2.88 | 1.24 | .33 | .27 | .55 | .18 AMP |
| | | | | 28.49 | 98.98 | 199.33 | 324.83 | 215.66 | 199.48 | 232.48 | 218.84 PHASE |
| 238 | -6.84 | 23.99 | 688 | 15.45 | .64 | 4.88 | 1.49 | 5.68 | 4.95 | 2.85 | 1.65 AMP |
| | | | | 17.97 | 386.34 | 259.98 | 385.25 | 239.24 | 286.23 | 384.88 | 338.52 PHASE |
| 231 | 3.28 | 5.28 | 688 | 2.17 | 1.96 | 1.13 | .82 | .22 | .11 | .18 | .11 AMP |
| | | | | 36.29 | 269.71 | 137.74 | 355.16 | 218.52 | 318.87 | 174.46 | 89.65 PHASE |
| 232 | 2.53 | 4.82 | 688 | 2.78 | 1.75 | 1.84 | .39 | .49 | .11 | .88 | .12 AMP |
| | | | | 37.58 | 279.82 | 144.68 | 12.83 | 242.99 | 177.83 | 177.76 | 135.98 PHASE |
| 233 | 1.59 | 4.53 | 688 | 3.51 | 1.29 | .89 | .25 | .43 | .25 | .11 | .14 AMP |
| | | | | 32.54 | 288.88 | 168.69 | 348.94 | 228.38 | 148.92 | 174.47 | 126.91 PHASE |
| 234 | .68 | 5.99 | 688 | 4.66 | 1.81 | 1.32 | .58 | .33 | .32 | .23 | .17 AMP |
| | | | | 34.58 | 293.83 | 199.32 | 351.13 | 214.42 | 146.74 | 197.82 | 172.89 PHASE |
| 235 | -.83 | 9.27 | 688 | 6.74 | .47 | 2.24 | 1.82 | .68 | .32 | .19 | .17 AMP |
| | | | | 38.13 | 284.71 | 288.87 | 346.64 | 175.86 | 189.37 | 218.54 | 171.93 PHASE |
| 236 | -3.89 | 15.33 | 688 | 18.33 | .94 | 2.78 | 1.62 | 3.11 | 2.81 | 1.24 | .71 AMP |
| | | | | 25.12 | 88.48 | 211.88 | 58.52 | 163.39 | 212.17 | 247.79 | 278.14 PHASE |
| 237 | -5.83 | 21.11 | 688 | 13.81 | .38 | 3.93 | 1.15 | 5.43 | 4.88 | 2.54 | 1.63 AMP |
| | | | | 21.85 | 81.47 | 235.81 | 184.48 | 192.68 | 244.53 | 272.17 | 385.51 PHASE |
| 238 | 2.43 | 4.36 | 688 | 1.95 | 1.82 | 1.83 | .46 | .22 | .13 | .12 | .12 AMP |
| | | | | 58.49 | 382.23 | 178.91 | 344.43 | 242.15 | 97.63 | 128.19 | 24.26 PHASE |
| 239 | 1.88 | 4.98 | 688 | 2.62 | 2.17 | 1.18 | .27 | .27 | .19 | .13 | .87 AMP |
| | | | | 43.78 | 293.79 | 171.62 | 354.36 | 248.87 | 93.12 | 35.38 | 21.32 PHASE |
| 248 | 1.87 | 5.98 | 688 | 3.46 | 2.25 | 1.49 | .41 | .87 | .19 | .87 | .89 AMP |
| | | | | 48.39 | 298.88 | 192.67 | 346.78 | 167.12 | 184.22 | 184.93 | 63.98 PHASE |
| 241 | .12 | 7.49 | 688 | 4.72 | 2.29 | 2.17 | 1.88 | .47 | .37 | .14 | .12 AMP |
| | | | | 48.31 | 382.75 | 217.11 | 4.79 | 118.29 | 159.83 | 223.47 | 72.54 PHASE |
| 242 | -1.89 | 11.88 | 688 | 6.65 | 1.73 | 3.27 | 1.61 | .81 | .58 | .38 | .17 AMP |
| | | | | 33.95 | 297.95 | 213.97 | 351.45 | 112.58 | 172.44 | 238.26 | 52.94 PHASE |
| 243 | -3.18 | 16.77 | 688 | 18.19 | .68 | 3.58 | 2.68 | 3.18 | 1.81 | .98 | .46 AMP |
| | | | | 33.28 | 358.76 | 223.21 | 66.34 | 161.48 | 217.58 | 264.25 | 285.38 PHASE |
| 244 | -4.54 | 28.82 | 688 | 12.22 | .78 | 4.38 | 2.23 | 4.82 | 3.35 | 2.82 | 1.17 AMP |
| | | | | 28.49 | 338.79 | 225.49 | 91.15 | 178.77 | 232.46 | 268.63 | 295.42 PHASE |
| 245 | .33 | 7.84 | 688 | 4.18 | 2.58 | 1.97 | .64 | .27 | .28 | .89 | .89 AMP |
| | | | | 38.21 | 297.81 | 193.49 | 343.69 | 96.22 | 123.24 | 166.95 | 46.22 PHASE |
| 246 | 1.26 | 5.25 | 687 | 2.64 | 2.16 | 1.45 | .43 | .12 | .16 | .89 | .11 AMP |
| | | | | 44.18 | 385.68 | 283.18 | 11.78 | 238.52 | 118.28 | 128.98 | 42.41 PHASE |
| 247 | .62 | 6.84 | 688 | 3.31 | 2.48 | 1.68 | .43 | .24 | .27 | .13 | .89 AMP |
| | | | | 41.95 | 387.69 | 218.35 | 15.23 | 192.63 | 133.94 | 193.28 | 55.97 PHASE |
| 248 | -.81 | 7.12 | 688 | 4.14 | 2.73 | 1.95 | .68 | .43 | .46 | .22 | .88 AMP |
| | | | | 39.43 | 385.16 | 218.45 | 13.37 | 156.29 | 148.97 | 212.74 | 51.99 PHASE |
| 249 | -.77 | 8.48 | 688 | 5.33 | 2.85 | 2.58 | 1.85 | .58 | .64 | .29 | .14 AMP |
| | | | | 36.48 | 388.89 | 218.58 | 359.86 | 128.59 | 139.14 | 211.21 | 47.36 PHASE |
| 258 | -2.37 | 13.89 | 688 | 8.49 | 1.99 | 3.38 | 2.44 | 2.23 | 1.38 | .61 | .24 AMP |
| | | | | 29.48 | 383.37 | 288.28 | 14.85 | 188.59 | 139.24 | 194.44 | 197.72 PHASE |
| 251 | -3.44 | 17.32 | 682 | 18.38 | 1.65 | 3.72 | 2.88 | 3.61 | 2.19 | 1.88 | .64 AMP |
| | | | | 24.91 | 381.43 | 199.95 | 35.38 | 187.65 | 148.98 | 192.61 | 213.53 PHASE |

TABLE VI.- Continued

(c) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 15.25 | 32.84 | 608 | 18.35 | 17.33 | 7.51 | .71 | .39 | 1.27 | 2.40 | .85 AMP |
| | | | | 132.77 | 327.64 | 62.02 | 341.21 | 281.14 | 185.22 | 37.78 | 333.74 PHASE |
| 225 | 17.82 | 32.30 | 608 | 19.16 | 15.61 | 6.77 | .64 | .12 | 1.26 | 2.37 | .72 AMP |
| | | | | 133.94 | 326.70 | 54.41 | 323.07 | 159.72 | 97.85 | 44.74 | 346.27 PHASE |
| 226 | 20.03 | 31.38 | 608 | 20.00 | 14.38 | 6.76 | .65 | .39 | 1.32 | 2.15 | .98 AMP |
| | | | | 132.94 | 321.64 | 41.50 | 333.24 | 126.94 | 84.13 | 45.53 | 344.82 PHASE |
| 227 | 22.32 | 31.96 | 608 | 20.98 | 13.62 | 7.42 | .66 | .57 | 1.57 | 2.42 | 1.20 AMP |
| | | | | 133.54 | 324.82 | 43.96 | 354.47 | 110.04 | 85.01 | 63.73 | 359.36 PHASE |
| 228 | 24.67 | 32.30 | 608 | 21.93 | 13.01 | 7.80 | .34 | .65 | 1.42 | 2.51 | 1.81 AMP |
| | | | | 133.99 | 329.99 | 46.59 | 354.96 | 142.81 | 94.67 | 80.10 | 22.55 PHASE |
| 229 | 26.61 | 35.33 | 608 | 22.35 | 14.07 | 7.72 | .26 | .50 | 1.85 | 3.76 | 3.17 AMP |
| | | | | 128.70 | 325.21 | 35.26 | 170.08 | 129.53 | 65.85 | 66.50 | 359.96 PHASE |
| 230 | 27.38 | 39.32 | 608 | 21.76 | 22.82 | 5.14 | 1.47 | 1.91 | 2.73 | .95 | 2.65 AMP |
| | | | | 131.05 | 330.04 | 55.93 | 198.19 | 88.16 | 129.37 | 77.99 | 350.56 PHASE |
| 231 | 16.75 | 34.20 | 608 | 18.37 | 17.76 | 7.61 | .80 | .57 | 1.97 | 2.09 | 2.00 AMP |
| | | | | 134.93 | 334.14 | 62.75 | 334.80 | 261.51 | 114.45 | 33.03 | 192.17 PHASE |
| 232 | 19.13 | 32.09 | 608 | 18.82 | 16.02 | 6.66 | .60 | .03 | .89 | 1.84 | .14 AMP |
| | | | | 136.67 | 337.28 | 60.55 | 350.81 | 59.93 | 100.01 | 49.14 | 36.84 PHASE |
| 233 | 21.70 | 30.61 | 608 | 19.47 | 14.18 | 6.02 | .48 | .21 | .95 | 1.75 | .57 AMP |
| | | | | 133.83 | 330.23 | 46.27 | 4.99 | 74.27 | 79.72 | 43.36 | 7.68 PHASE |
| 234 | 24.18 | 29.59 | 608 | 19.93 | 13.50 | 5.81 | .16 | .40 | .94 | 1.79 | .91 AMP |
| | | | | 135.56 | 333.63 | 53.75 | 352.50 | 77.79 | 80.18 | 50.66 | 353.51 PHASE |
| 235 | 26.52 | 30.03 | 608 | 21.11 | 13.70 | 6.36 | .07 | .75 | 1.19 | 2.06 | 1.47 AMP |
| | | | | 130.35 | 329.17 | 47.62 | 277.18 | 50.11 | 66.05 | 51.15 | 344.54 PHASE |
| 236 | 28.84 | 32.90 | 608 | 21.71 | 15.00 | 7.03 | .17 | 1.47 | 2.24 | 3.35 | 2.57 AMP |
| | | | | 129.48 | 331.25 | 47.45 | 244.03 | 42.43 | 72.51 | 74.22 | 6.69 PHASE |
| 237 | 29.72 | 35.95 | 608 | 21.67 | 18.78 | 5.96 | .51 | 2.27 | 2.88 | 2.61 | 2.58 AMP |
| | | | | 127.30 | 331.49 | 59.23 | 180.09 | 47.50 | 101.27 | 95.67 | 14.10 PHASE |
| 238 | 19.30 | 32.98 | 608 | 16.95 | 17.67 | 7.33 | .87 | .81 | .36 | 1.32 | .19 AMP |
| | | | | 136.41 | 345.78 | 81.72 | 2.93 | 299.00 | 160.89 | 31.35 | 261.73 PHASE |
| 239 | 21.74 | 31.49 | 608 | 17.34 | 16.77 | 7.16 | .77 | .83 | .17 | 1.34 | .21 AMP |
| | | | | 131.52 | 335.27 | 60.54 | 338.32 | 286.55 | 84.40 | 356.52 | 239.36 PHASE |
| 240 | 24.41 | 30.67 | 608 | 18.12 | 15.50 | 6.95 | .40 | .83 | .20 | 1.52 | .04 AMP |
| | | | | 131.39 | 335.09 | 57.60 | 322.60 | 298.38 | 79.93 | 6.31 | 218.39 PHASE |
| 241 | 26.88 | 30.68 | 608 | 19.10 | 15.32 | 7.26 | .56 | .88 | .29 | 1.49 | .11 AMP |
| | | | | 132.12 | 338.44 | 64.74 | 287.96 | 325.85 | 63.40 | 25.37 | 285.90 PHASE |
| 242 | 29.50 | 30.70 | 608 | 19.67 | 14.72 | 7.39 | .74 | .96 | .44 | 1.64 | .31 AMP |
| | | | | 127.70 | 333.09 | 57.83 | 234.51 | 318.54 | 27.09 | 5.70 | 273.44 PHASE |
| 243 | 32.22 | 31.84 | 608 | 19.80 | 15.80 | 7.72 | 1.32 | 1.88 | 1.52 | 2.29 | 1.19 AMP |
| | | | | 130.41 | 340.66 | 63.71 | 279.35 | 8.53 | 90.20 | 67.60 | 10.79 PHASE |
| 244 | 33.26 | 34.49 | 608 | 19.65 | 17.87 | 7.94 | .62 | 2.20 | 2.14 | 1.90 | 1.40 AMP |
| | | | | 120.64 | 337.43 | 60.25 | 278.53 | 18.37 | 113.33 | 86.70 | 25.30 PHASE |
| 245 | 26.49 | 30.30 | 608 | 19.64 | 15.26 | 7.24 | .50 | .88 | .17 | 1.46 | .05 AMP |
| | | | | 129.34 | 332.38 | 52.69 | 288.45 | 295.70 | 89.57 | .31 | 16.90 PHASE |
| 246 | 24.89 | 25.22 | 607 | 14.92 | 13.57 | 6.20 | .55 | .72 | .19 | .65 | .36 AMP |
| | | | | 135.29 | 346.21 | 67.35 | 303.99 | 294.41 | 156.45 | 16.63 | 70.92 PHASE |
| 247 | 27.40 | 25.27 | 608 | 15.50 | 13.14 | 6.14 | .48 | .71 | .16 | .66 | .46 AMP |
| | | | | 134.47 | 345.39 | 61.58 | 283.77 | 301.93 | 112.27 | 5.03 | 90.64 PHASE |
| 248 | 29.89 | 26.01 | 608 | 16.34 | 13.52 | 6.62 | .53 | .80 | .11 | .71 | .35 AMP |
| | | | | 133.36 | 342.57 | 54.53 | 250.51 | 312.09 | 62.85 | 358.93 | 91.23 PHASE |
| 249 | 32.71 | 26.06 | 608 | 17.12 | 13.72 | 6.97 | .76 | .93 | .15 | .79 | .36 AMP |
| | | | | 131.15 | 337.21 | 45.90 | 213.29 | 303.65 | 357.96 | 344.04 | 54.20 PHASE |
| 250 | 35.52 | 28.68 | 608 | 18.07 | 14.45 | 7.20 | 1.21 | 1.48 | .74 | 1.63 | .91 AMP |
| | | | | 127.21 | 331.85 | 40.03 | 217.92 | 303.38 | 14.47 | 10.06 | 7.70 PHASE |
| 251 | 36.47 | 30.98 | 602 | 18.21 | 11.84 | 8.09 | .53 | 1.78 | .95 | 1.75 | 1.06 AMP |
| | | | | 124.73 | 326.45 | 38.77 | 216.36 | 311.55 | 49.63 | 38.47 | 7.92 PHASE |

TABLE VI.- Continued

(c) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 42.57 | 48.56 | 688 | 14.71 | 5.27 | 4.89 | 4.37 | 9.53 | 23.88 | 1.62 | .81 AMP |
| | | | | 264.58 | 132.58 | 261.84 | 187.25 | 259.28 | 246.63 | 176.46 | 338.75 PHASE |
| 225 | 39.82 | 61.64 | 688 | 22.18 | 7.78 | 8.44 | 6.36 | 13.33 | 29.34 | 1.88 | .71 AMP |
| | | | | 284.89 | 154.24 | 295.12 | 181.39 | 262.89 | 283.71 | 288.58 | 56.76 PHASE |
| 226 | 37.44 | 57.77 | 688 | 29.68 | 18.79 | 8.69 | 7.88 | 15.55 | 16.49 | 6.18 | .58 AMP |
| | | | | 381.54 | 153.96 | 294.37 | 84.61 | 271.38 | 328.82 | 46.84 | 275.18 PHASE |
| 227 | 34.46 | 63.55 | 688 | 39.64 | 12.94 | 18.12 | 9.81 | 14.53 | 14.87 | 2.94 | 1.95 AMP |
| | | | | 317.72 | 156.76 | 294.29 | 82.83 | 299.28 | 345.74 | 115.15 | 35.85 PHASE |
| 228 | 38.62 | 78.19 | 688 | 51.32 | 13.92 | 14.26 | 11.58 | 12.67 | 15.82 | 7.89 | 3.85 AMP |
| | | | | 338.95 | 168.43 | 299.89 | 78.52 | 346.68 | 21.45 | 285.13 | 59.69 PHASE |
| 229 | 27.51 | 98.94 | 688 | 61.78 | 18.27 | 21.83 | 15.82 | 18.18 | 13.73 | 8.82 | 4.98 AMP |
| | | | | 338.51 | 159.59 | 291.84 | 58.89 | 348.32 | 21.61 | 295.11 | 26.24 PHASE |
| 238 | 29.19 | 128.36 | 688 | 63.38 | 38.71 | 31.63 | 15.68 | 13.16 | 48.45 | 18.57 | 7.81 AMP |
| | | | | 359.29 | 194.27 | 313.14 | 95.42 | 281.15 | 286.33 | 223.26 | 61.27 PHASE |
| 231 | 48.16 | 48.88 | 688 | 14.74 | 5.61 | 4.53 | 3.66 | 11.34 | 21.27 | 4.97 | .47 AMP |
| | | | | 282.91 | 147.28 | 324.28 | 127.11 | 289.84 | 253.86 | 136.18 | 82.57 PHASE |
| 232 | 38.64 | 43.43 | 688 | 21.65 | 8.73 | 5.96 | 3.95 | 12.81 | 8.96 | 2.68 | .84 AMP |
| | | | | 382.41 | 162.67 | 318.24 | 82.81 | 299.44 | 298.74 | 112.46 | 11.22 PHASE |
| 233 | 37.12 | 53.57 | 688 | 29.75 | 18.65 | 6.69 | 7.95 | 13.66 | 13.77 | 3.94 | .57 AMP |
| | | | | 316.73 | 161.78 | 293.35 | 68.77 | 295.55 | 383.95 | 125.34 | 51.93 PHASE |
| 234 | 35.59 | 68.82 | 688 | 38.78 | 11.52 | 9.33 | 9.33 | 13.28 | 14.33 | .99 | .88 AMP |
| | | | | 329.43 | 172.16 | 298.18 | 83.49 | 312.94 | 344.68 | 214.28 | 62.16 PHASE |
| 235 | 33.54 | 68.75 | 688 | 49.98 | 13.18 | 14.37 | 11.57 | 11.17 | 13.57 | 6.87 | 2.58 AMP |
| | | | | 334.48 | 175.46 | 298.78 | 66.18 | 318.97 | 358.88 | 282.72 | 4.68 PHASE |
| 236 | 32.28 | 91.24 | 688 | 59.85 | 28.84 | 25.81 | 18.23 | 54 | 12.87 | 1.65 | 3.89 AMP |
| | | | | 349.12 | 184.91 | 295.54 | 58.12 | 19.48 | 58.65 | 338.72 | 15.48 PHASE |
| 237 | 33.15 | 116.18 | 688 | 61.89 | 29.87 | 29.29 | 16.65 | 16.38 | 18.84 | 11.53 | 5.12 AMP |
| | | | | 358.81 | 194.29 | 298.77 | 73.72 | 285.19 | 178.84 | 159.24 | 4.89 PHASE |
| 238 | 39.88 | 52.81 | 688 | 9.57 | 6.17 | 4.26 | 2.27 | 6.44 | 27.19 | 4.82 | .17 AMP |
| | | | | 298.86 | 166.54 | 9.53 | 47.16 | 291.58 | 222.99 | 159.16 | 359.27 PHASE |
| 239 | 39.44 | 44.91 | 688 | 16.25 | 9.16 | 5.79 | 3.44 | 7.87 | 17.68 | 3.48 | .78 AMP |
| | | | | 385.82 | 173.15 | 337.67 | 8.98 | 261.81 | 191.47 | 118.74 | 63.56 PHASE |
| 248 | 38.35 | 59.63 | 688 | 25.18 | 11.27 | 6.95 | 5.79 | 9.48 | 19.66 | 2.95 | 1.55 AMP |
| | | | | 321.78 | 185.74 | 388.88 | 33.17 | 272.83 | 258.38 | 287.87 | 118.88 PHASE |
| 241 | 37.13 | 76.94 | 688 | 35.88 | 13.47 | 18.98 | 8.84 | 11.24 | 25.33 | 4.47 | 1.45 AMP |
| | | | | 333.86 | 281.88 | 388.79 | 55.41 | 279.11 | 284.14 | 256.31 | 145.44 PHASE |
| 242 | 35.16 | 92.93 | 688 | 48.78 | 15.55 | 16.93 | 18.36 | 18.28 | 25.21 | 6.58 | .71 AMP |
| | | | | 339.81 | 199.86 | 296.79 | 55.28 | 251.74 | 288.24 | 266.57 | 144.27 PHASE |
| 243 | 33.95 | 184.84 | 688 | 68.56 | 23.41 | 27.81 | 14.42 | 18.28 | 12.88 | 1.65 | 1.13 AMP |
| | | | | 355.21 | 211.83 | 388.24 | 78.12 | 228.57 | 14.37 | 52.59 | 348.75 PHASE |
| 244 | 35.76 | 126.22 | 688 | 63.81 | 38.56 | 31.11 | 14.81 | 18.87 | 18.54 | 13.17 | 1.63 AMP |
| | | | | .86 | 211.56 | 386.73 | 76.36 | 284.87 | 151.83 | 125.38 | 11.69 PHASE |
| 245 | 37.76 | 69.48 | 688 | 38.97 | 12.64 | 9.75 | 6.77 | 18.73 | 22.65 | 3.43 | 1.39 AMP |
| | | | | 323.75 | 193.81 | 298.38 | 33.61 | 259.52 | 248.81 | 288.17 | 75.81 PHASE |
| 246 | 39.27 | 48.64 | 687 | 14.13 | 9.88 | 5.88 | 5.87 | 6.57 | 22.96 | 4.17 | 2.83 AMP |
| | | | | 328.39 | 192.91 | 345.48 | 28.88 | 248.64 | 238.47 | 113.84 | 111.58 PHASE |
| 247 | 39.28 | 68.37 | 688 | 23.47 | 11.68 | 5.92 | 6.53 | 7.64 | 24.32 | 2.14 | 1.57 AMP |
| | | | | 335.82 | 286.42 | 385.98 | 27.28 | 256.68 | 267.48 | 188.93 | 127.33 PHASE |
| 248 | 39.84 | 75.76 | 688 | 35.18 | 13.53 | 9.89 | 8.38 | 8.87 | 25.78 | 2.12 | 1.42 AMP |
| | | | | 339.94 | 214.38 | 292.33 | 28.83 | 239.74 | 278.26 | 224.86 | 116.81 PHASE |
| 249 | 38.59 | 98.28 | 688 | 48.68 | 15.41 | 13.76 | 9.98 | 18.94 | 24.75 | 2.86 | 1.85 AMP |
| | | | | 342.32 | 218.34 | 283.23 | 27.52 | 214.94 | 277.98 | 254.87 | 78.63 PHASE |
| 258 | 38.24 | 111.23 | 688 | 66.48 | 22.72 | 24.23 | 12.94 | 13.28 | 15.48 | 6.28 | 1.73 AMP |
| | | | | 348.71 | 215.26 | 281.85 | 17.74 | 171.93 | 328.73 | 342.65 | 318.26 PHASE |
| 251 | 38.88 | 129.82 | 682 | 72.71 | 29.74 | 29.36 | 18.96 | 17.37 | 12.55 | 13.38 | 3.28 AMP |
| | | | | 352.74 | 218.18 | 282.18 | 12.57 | 141.84 | 42.89 | 21.66 | 291.82 PHASE |

TABLE VI.- Continued

(c) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 1.14 | 3.78 | 688 | 1.87 | 1.48 | .72 | .46 | .88 | .18 | .16 | .11 AMP |
| | | | | 52.87 | 274.15 | 148.53 | 46.57 | 145.43 | 62.66 | 69.51 | 1.43 PHASE |
| 225 | .69 | 3.86 | 688 | 2.29 | 1.51 | .64 | .52 | .19 | .18 | .85 | .88 AMP |
| | | | | 52.47 | 277.19 | 143.41 | 52.95 | 153.85 | 92.81 | 98.18 | 59.36 PHASE |
| 226 | .15 | 3.98 | 688 | 2.63 | 1.46 | .75 | .22 | .11 | .28 | .16 | .14 AMP |
| | | | | 49.86 | 278.81 | 136.85 | 71.83 | 251.28 | 126.83 | 8.68 | 99.86 PHASE |
| 227 | -.55 | 4.22 | 688 | 3.23 | 1.19 | .82 | .84 | .26 | .89 | .15 | .11 AMP |
| | | | | 46.76 | 292.85 | 163.43 | 386.58 | 282.78 | 138.96 | 26.89 | 138.79 PHASE |
| 228 | -1.34 | 5.22 | 688 | 4.13 | .78 | 1.37 | .53 | .27 | .25 | .21 | .18 AMP |
| | | | | 43.96 | 319.88 | 187.13 | 316.18 | 386.48 | 68.69 | 74.83 | 185.48 PHASE |
| 229 | -2.68 | 8.21 | 688 | 5.93 | 1.85 | 1.98 | .88 | .28 | .15 | .17 | .28 AMP |
| | | | | 31.46 | 22.47 | 189.34 | 316.94 | 238.84 | 237.83 | 288.41 | 273.13 PHASE |
| 238 | -6.87 | 17.57 | 688 | 18.88 | 1.79 | 3.81 | 1.83 | 3.94 | 4.31 | 2.18 | 1.27 AMP |
| | | | | 22.81 | 355.65 | 262.99 | 325.42 | 265.98 | 324.16 | 1.29 | 5.88 PHASE |
| 231 | .46 | 3.82 | 688 | 1.98 | 1.48 | .71 | .54 | .15 | .83 | .87 | .87 AMP |
| | | | | 56.61 | 287.64 | 147.51 | 33.44 | 273.81 | 95.85 | 79.26 | 86.46 PHASE |
| 232 | .85 | 3.66 | 688 | 2.23 | 1.43 | .59 | .38 | .36 | .15 | .84 | .87 AMP |
| | | | | 57.45 | 294.71 | 149.84 | 64.13 | 269.93 | 175.43 | 45.82 | 144.39 PHASE |
| 233 | -.42 | 3.49 | 688 | 2.59 | 1.32 | .47 | .13 | .33 | .25 | .81 | .88 AMP |
| | | | | 53.65 | 295.56 | 149.72 | 94.79 | 256.17 | 153.95 | 269.69 | 123.51 PHASE |
| 234 | -.92 | 4.18 | 688 | 3.14 | 1.35 | .69 | .11 | .18 | .12 | .12 | .12 AMP |
| | | | | 54.87 | 389.83 | 198.34 | 9.23 | 262.74 | 168.58 | 254.86 | 194.47 PHASE |
| 235 | -1.62 | 5.22 | 688 | 4.13 | 1.28 | 1.25 | .42 | .32 | .38 | .12 | .15 AMP |
| | | | | 45.52 | 315.68 | 288.53 | 348.74 | 199.65 | 186.65 | 389.85 | 178.63 PHASE |
| 236 | -3.89 | 18.27 | 688 | 6.38 | 1.28 | 1.93 | .54 | 2.11 | 1.55 | .98 | .47 AMP |
| | | | | 35.13 | 14.88 | 195.17 | 187.56 | 186.76 | 248.85 | 384.16 | 329.38 PHASE |
| 237 | -4.68 | 15.81 | 688 | 8.53 | 1.24 | 2.48 | .52 | 3.88 | 3.38 | 2.89 | 1.89 AMP |
| | | | | 29.89 | 8.87 | 229.74 | 181.43 | 217.35 | 279.66 | 327.74 | 358.85 PHASE |
| 238 | -.82 | 3.39 | 688 | 1.85 | 1.46 | .61 | .24 | .21 | .14 | .12 | .88 AMP |
| | | | | 67.53 | 318.88 | 189.38 | 34.28 | 387.51 | 125.36 | 183.38 | 49.49 PHASE |
| 239 | -.38 | 3.98 | 688 | 2.31 | 1.71 | .72 | .28 | .26 | .17 | .84 | .84 AMP |
| | | | | 58.61 | 387.83 | 181.23 | 58.79 | 298.86 | 118.87 | 42.11 | 83.59 PHASE |
| 248 | -.77 | 4.71 | 688 | 2.81 | 1.89 | .88 | .19 | .12 | .23 | .89 | .87 AMP |
| | | | | 55.62 | 318.43 | 197.75 | 51.72 | 333.37 | 182.85 | 87.48 | 57.34 PHASE |
| 241 | -1.23 | 5.98 | 688 | 3.49 | 2.14 | 1.24 | .45 | .28 | .36 | .12 | .17 AMP |
| | | | | 54.94 | 316.34 | 218.51 | 36.81 | 93.95 | 152.55 | 281.27 | 58.77 PHASE |
| 242 | -1.82 | 6.78 | 688 | 4.58 | 2.83 | 1.81 | .72 | .42 | .44 | .31 | .22 AMP |
| | | | | 47.94 | 313.39 | 216.82 | 13.82 | 185.94 | 163.44 | 283.86 | 49.86 PHASE |
| 243 | -3.25 | 18.48 | 688 | 6.86 | 1.36 | 2.12 | 1.47 | 2.88 | 1.33 | .93 | .31 AMP |
| | | | | 42.88 | 347.76 | 218.78 | 182.24 | 185.58 | 244.43 | 318.17 | 7.87 PHASE |
| 244 | -4.44 | 14.55 | 688 | 8.48 | 1.47 | 2.68 | 1.34 | 3.16 | 2.61 | 1.86 | .81 AMP |
| | | | | 36.15 | 345.26 | 226.68 | 132.75 | 287.78 | 267.27 | 319.89 | 351.92 PHASE |
| 245 | -1.19 | 5.45 | 688 | 3.28 | 2.13 | 1.17 | .28 | .16 | .29 | .83 | .12 AMP |
| | | | | 52.54 | 388.89 | 283.43 | 28.31 | 54.64 | 116.85 | 287.38 | 14.52 PHASE |
| 246 | -.62 | 4.87 | 687 | 2.34 | 1.78 | .89 | .28 | .12 | .16 | .88 | .18 AMP |
| | | | | 58.36 | 317.71 | 214.88 | 55.79 | 319.82 | 129.32 | 187.35 | 43.81 PHASE |
| 247 | -1.81 | 4.88 | 688 | 2.83 | 1.89 | 1.83 | .27 | .88 | .24 | .86 | .13 AMP |
| | | | | 55.52 | 317.54 | 228.17 | 61.86 | 241.38 | 138.78 | 227.74 | 45.22 PHASE |
| 248 | -1.41 | 5.61 | 688 | 3.41 | 2.13 | 1.28 | .43 | .22 | .36 | .15 | .13 AMP |
| | | | | 52.39 | 314.98 | 218.97 | 58.95 | 169.84 | 149.33 | 258.22 | 38.75 PHASE |
| 249 | -1.88 | 6.57 | 688 | 4.13 | 2.35 | 1.46 | .58 | .36 | .49 | .23 | .15 AMP |
| | | | | 48.86 | 318.32 | 218.33 | 33.45 | 138.53 | 147.12 | 253.93 | 23.46 PHASE |
| 258 | -2.67 | 9.89 | 688 | 5.85 | 2.11 | 1.77 | 1.45 | 1.54 | 1.11 | .68 | .19 AMP |
| | | | | 48.48 | 313.82 | 288.65 | 47.56 | 121.92 | 163.93 | 241.89 | 298.59 PHASE |
| 251 | -3.39 | 11.16 | 682 | 6.99 | 1.93 | 2.18 | 1.83 | 2.44 | 1.68 | .99 | .42 AMP |
| | | | | 34.84 | 315.29 | 197.88 | 69.21 | 131.96 | 181.82 | 238.88 | 278.85 PHASE |

TABLE VI.- Continued

(c) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | -2.62 | 38.82 | 688 | 16.71 | 14.57 | 5.81 | 3.84 | 3.32 | .26 | 2.47 | 1.49 |
| | | | | 135.61 | 323.59 | 38.84 | 212.88 | 286.19 | 163.62 | 287.92 | 145.76 |
| 225 | .56 | 38.32 | 688 | 17.46 | 12.88 | 4.63 | 2.25 | 3.43 | .36 | 2.38 | 1.38 |
| | | | | 136.68 | 322.98 | 36.17 | 218.21 | 197.78 | 166.56 | 212.63 | 163.48 |
| 226 | 3.47 | 38.17 | 688 | 18.44 | 11.68 | 4.33 | 1.99 | 3.78 | .68 | 2.81 | 1.55 |
| | | | | 135.72 | 317.54 | 35.33 | 216.82 | 181.66 | 126.81 | 214.71 | 161.59 |
| 227 | 6.51 | 38.12 | 688 | 19.62 | 18.58 | 4.43 | 1.72 | 4.19 | .68 | 2.86 | 1.89 |
| | | | | 137.49 | 319.49 | 43.78 | 228.33 | 171.85 | 148.29 | 231.52 | 172.81 |
| 228 | 9.72 | 31.24 | 688 | 21.23 | 9.63 | 4.36 | 1.28 | 3.86 | .74 | 2.83 | 2.69 |
| | | | | 139.82 | 323.69 | 51.58 | 257.12 | 177.85 | 138.74 | 247.14 | 198.25 |
| 229 | 12.82 | 32.83 | 688 | 22.26 | 18.14 | 3.58 | 1.99 | 4.37 | 1.23 | 3.43 | 4.52 |
| | | | | 135.88 | 318.57 | 28.59 | 284.73 | 148.47 | 128.28 | 236.61 | 179.38 |
| 230 | 12.88 | 42.67 | 688 | 21.96 | 17.56 | 3.21 | 1.87 | 9.18 | 1.98 | 1.64 | 3.82 |
| | | | | 139.37 | 324.88 | 22.17 | 71.73 | 145.29 | 189.34 | 247.19 | 173.14 |
| 231 | -1.64 | 31.68 | 688 | 17.58 | 14.58 | 5.84 | 3.16 | 3.55 | .39 | 2.18 | .89 |
| | | | | 137.75 | 331.75 | 38.39 | 214.57 | 228.46 | 53.69 | 218.21 | 154.27 |
| 232 | 2.28 | 29.97 | 688 | 18.84 | 13.13 | 4.38 | 2.12 | 3.76 | .49 | 1.82 | .48 |
| | | | | 139.56 | 334.28 | 37.12 | 229.16 | 221.88 | 187.71 | 221.95 | 216.95 |
| 233 | 5.81 | 29.43 | 688 | 18.27 | 11.78 | 3.84 | 2.82 | 3.73 | .37 | 1.58 | 1.13 |
| | | | | 138.22 | 326.86 | 29.66 | 249.73 | 285.16 | 98.64 | 214.39 | 198.44 |
| 234 | 7.69 | 29.88 | 688 | 18.49 | 11.45 | 3.68 | 1.99 | 3.36 | .46 | 1.68 | 1.68 |
| | | | | 141.68 | 329.11 | 46.81 | 287.89 | 216.79 | 186.16 | 224.82 | 198.88 |
| 235 | 18.52 | 31.69 | 688 | 19.88 | 11.88 | 3.98 | 2.13 | 2.65 | .61 | 1.68 | 2.42 |
| | | | | 138.28 | 325.16 | 48.42 | 286.77 | 188.15 | 62.45 | 218.43 | 178.98 |
| 236 | 12.68 | 32.37 | 688 | 28.43 | 12.89 | 4.15 | 2.83 | 3.84 | .84 | 3.25 | 4.89 |
| | | | | 138.38 | 327.69 | 41.74 | 314.18 | 125.12 | 183.49 | 245.65 | 189.82 |
| 237 | 12.88 | 35.85 | 688 | 28.18 | 16.22 | 3.77 | 1.68 | 6.88 | .78 | 2.87 | 4.12 |
| | | | | 137.87 | 326.57 | 39.88 | 333.33 | 126.81 | 135.37 | 278.61 | 192.11 |
| 238 | 1.28 | 29.67 | 688 | 17.12 | 14.71 | 4.64 | 2.87 | 2.36 | .48 | 1.48 | .22 |
| | | | | 148.28 | 346.46 | 51.89 | 218.62 | 251.85 | 88.61 | 287.93 | 156.15 |
| 239 | 3.91 | 29.83 | 688 | 17.66 | 14.82 | 4.72 | 2.28 | 2.33 | .59 | 1.48 | .24 |
| | | | | 136.56 | 335.44 | 37.88 | 288.85 | 238.38 | 64.68 | 163.48 | 189.51 |
| 240 | 6.71 | 29.66 | 688 | 19.18 | 13.86 | 4.59 | 1.67 | 2.12 | .74 | 1.38 | .31 |
| | | | | 137.48 | 334.22 | 43.55 | 232.59 | 238.63 | 61.56 | 167.49 | 198.46 |
| 241 | 9.53 | 38.78 | 688 | 19.19 | 13.17 | 4.95 | 1.88 | 2.16 | .66 | 1.13 | .39 |
| | | | | 139.91 | 337.18 | 56.58 | 264.44 | 251.65 | 63.76 | 185.21 | 289.78 |
| 242 | 12.54 | 31.58 | 688 | 28.11 | 12.94 | 5.25 | 1.88 | 1.75 | .84 | 1.27 | .62 |
| | | | | 137.33 | 329.58 | 54.16 | 279.58 | 237.55 | 54.53 | 164.35 | 162.52 |
| 243 | 15.28 | 32.27 | 688 | 21.81 | 13.55 | 5.53 | 1.27 | 1.58 | 1.22 | 1.88 | 1.98 |
| | | | | 148.92 | 336.69 | 61.78 | 324.87 | 143.53 | 97.18 | 238.82 | 195.82 |
| 244 | 15.97 | 34.62 | 688 | 21.17 | 15.44 | 5.87 | .92 | 3.46 | 1.45 | 1.73 | 2.44 |
| | | | | 139.91 | 333.56 | 62.99 | 312.14 | 137.64 | 95.16 | 264.89 | 198.44 |
| 245 | 8.86 | 38.84 | 688 | 18.71 | 13.86 | 4.99 | 1.54 | 2.18 | .81 | 1.25 | .43 |
| | | | | 136.45 | 331.84 | 41.67 | 238.63 | 227.53 | 62.51 | 161.13 | 194.56 |
| 246 | 6.66 | 25.41 | 687 | 15.58 | 11.44 | 4.11 | 1.76 | 2.56 | .58 | 1.48 | .48 |
| | | | | 139.85 | 345.48 | 45.11 | 281.85 | 221.86 | 98.15 | 187.32 | 258.38 |
| 247 | 9.35 | 25.53 | 688 | 15.95 | 11.86 | 4.42 | 1.85 | 2.62 | .48 | .61 | .73 |
| | | | | 139.67 | 343.85 | 43.88 | 198.32 | 211.42 | 85.81 | 172.38 | 254.52 |
| 248 | 12.86 | 26.92 | 688 | 16.95 | 11.45 | 5.81 | .65 | 2.33 | .57 | .65 | .64 |
| | | | | 139.21 | 339.85 | 48.42 | 283.59 | 288.95 | 61.97 | 171.11 | 246.86 |
| 249 | 15.13 | 29.89 | 688 | 18.81 | 11.91 | 5.56 | .21 | 2.46 | .88 | .71 | .76 |
| | | | | 137.78 | 332.81 | 37.21 | 182.61 | 185.35 | 59.56 | 158.82 | 223.18 |
| 250 | 17.82 | 38.27 | 688 | 19.15 | 13.39 | 6.48 | .65 | 1.54 | 1.33 | 1.58 | 1.36 |
| | | | | 135.81 | 327.32 | 34.84 | 65.25 | 189.96 | 61.34 | 184.92 | 177.71 |
| 251 | 18.67 | 38.33 | 682 | 19.19 | 14.59 | 7.16 | .71 | 2.96 | 1.47 | 1.64 | 1.37 |
| | | | | 134.94 | 323.89 | 31.68 | 49.37 | 81.82 | 56.15 | 216.88 | 174.93 |

TABLE VI.- Continued

(c) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | 68.26 | 27.17 | 688 | 8.59 | 9.89 | 3.27 | 2.85 | 5.64 | 9.22 | 2.89 | 1.41 AMP |
| 225 | 61.67 | 32.75 | 688 | 154.84 | 321.52 | 27.83 | 174.97 | 232.26 | 238.44 | 288.12 | 158.25 PHASE |
| 226 | 63.75 | 27.93 | 688 | 7.18 | 7.37 | 3.89 | 1.98 | 6.55 | 11.24 | 1.65 | 1.34 AMP |
| 227 | 65.17 | 23.28 | 688 | 164.12 | 316.43 | 8.86 | 137.67 | 235.69 | 275.92 | 287.65 | 152.33 PHASE |
| 228 | 66.58 | 27.61 | 688 | 4.87 | 5.87 | 4.83 | 2.28 | 6.28 | 6.21 | 1.85 | 1.62 AMP |
| 229 | 67.42 | 32.42 | 688 | 178.18 | 387.41 | 4.94 | 185.48 | 238.64 | 326.17 | 55.96 | 161.31 PHASE |
| 230 | 67.61 | 55.51 | 688 | 2.86 | 4.71 | 4.32 | 2.81 | 3.99 | 5.34 | 1.87 | 1.68 AMP |
| 231 | 68.12 | 29.54 | 688 | 185.52 | 389.84 | 7.82 | 98.21 | 255.95 | 349.82 | 138.77 | 141.96 PHASE |
| 232 | 68.94 | 21.59 | 688 | 1.59 | 3.86 | 4.86 | 3.47 | 1.85 | 6.48 | 3.89 | 2.24 AMP |
| 233 | 62.78 | 23.84 | 688 | 325.66 | 321.25 | 1.88 | 74.86 | 336.98 | 28.89 | 252.82 | 162.28 PHASE |
| 234 | 64.68 | 24.71 | 688 | 5.84 | 2.56 | 5.88 | 4.48 | 2.52 | 6.15 | 4.38 | 2.63 AMP |
| 235 | 66.28 | 22.58 | 688 | 356.92 | 324.69 | 325.74 | 43.83 | 48.61 | 33.87 | 256.96 | 148.92 PHASE |
| 236 | 68.58 | 29.54 | 688 | 9.36 | 6.62 | 18.97 | 5.49 | 9.17 | 15.69 | 7.72 | 4.55 AMP |
| 237 | 69.71 | 58.48 | 688 | 35.64 | 277.64 | 323.42 | 72.74 | 161.57 | 199.85 | 215.87 | 95.45 PHASE |
| 238 | 68.16 | 31.98 | 688 | 8.88 | 8.98 | 4.64 | 2.42 | 5.98 | 7.88 | 2.54 | 4.49 AMP |
| 239 | 61.88 | 23.79 | 688 | 152.52 | 328.98 | 24.58 | 187.15 | 257.19 | 247.63 | 158.88 | 158.55 PHASE |
| 240 | 67.38 | 28.18 | 688 | 6.86 | 7.28 | 4.27 | 1.89 | 6.89 | 3.26 | 1.33 | 888 AMP |
| 241 | 65.17 | 28.59 | 688 | 159.88 | 328.89 | 24.66 | 161.16 | 264.43 | 298.19 | 158.94 | 199.94 PHASE |
| 242 | 67.38 | 28.18 | 688 | 3.54 | 5.78 | 3.62 | 1.43 | 5.88 | 5.28 | 2.86 | 1.24 AMP |
| 243 | 69.92 | 28.24 | 688 | 168.89 | 318.38 | 11.85 | 72.96 | 258.86 | 381.62 | 142.72 | 169.59 PHASE |
| 244 | 71.59 | 39.31 | 688 | .98 | 5.41 | 3.45 | 1.97 | 5.32 | 5.98 | 1.49 | 1.68 AMP |
| 245 | 65.51 | 27.64 | 688 | 178.14 | 319.97 | 11.78 | 77.24 | 275.22 | 342.97 | 198.38 | 176.84 PHASE |
| 246 | 63.33 | 23.78 | 687 | 1.81 | 5.56 | 4.15 | 2.97 | 2.99 | 5.96 | 2.68 | 1.63 AMP |
| 247 | 64.24 | 22.18 | 688 | 358.92 | 313.17 | 352.21 | 54.44 | 279.87 | 348.96 | 253.87 | 155.97 PHASE |
| 248 | 66.28 | 24.79 | 688 | 5.16 | 4.51 | 6.98 | 5.78 | 3.39 | 5.45 | 2.33 | 2.23 AMP |
| 249 | 68.58 | 28.38 | 688 | 19.88 | 294.24 | 323.15 | 48.66 | 118.95 | 57.83 | 249.42 | 189.42 PHASE |
| 250 | 71.33 | 27.77 | 688 | 7.98 | 5.62 | 7.77 | 4.73 | 8.99 | 7.22 | 4.17 | 1.57 AMP |
| 251 | 72.82 | 42.88 | 682 | 48.81 | 271.86 | 315.64 | 59.78 | 168.87 | 178.43 | 177.33 | 219.52 PHASE |
| | | | | 8.14 | 8.71 | 4.99 | 1.28 | 4.18 | 18.22 | 2.41 | .43 AMP |
| | | | | 148.25 | 343.15 | 48.13 | 227.97 | 267.47 | 215.28 | 179.75 | 155.46 PHASE |
| | | | | 6.38 | 7.65 | 5.28 | 7.88 | 4.64 | 6.38 | 2.27 | .79 AMP |
| | | | | 147.69 | 326.94 | 25.64 | 258.83 | 243.11 | 182.61 | 134.83 | 86.36 PHASE |
| | | | | 3.97 | 7.81 | 4.72 | 1.98 | 5.82 | 7.17 | 1.95 | 1.28 AMP |
| | | | | 147.61 | 319.36 | 19.82 | 12.32 | 251.95 | 246.47 | 187.49 | 121.31 PHASE |
| | | | | 1.74 | 7.44 | 5.21 | 1.76 | 5.72 | 9.85 | 2.73 | 1.36 AMP |
| | | | | 131.85 | 316.88 | 16.81 | 41.42 | 263.75 | 288.14 | 239.17 | 146.38 PHASE |
| | | | | 2.38 | 7.41 | 5.72 | 2.71 | 5.11 | 18.13 | 2.68 | 1.45 AMP |
| | | | | 18.58 | 387.11 | 356.22 | 41.31 | 248.88 | 283.37 | 251.61 | 125.27 PHASE |
| | | | | 5.47 | 7.32 | 8.64 | 5.37 | 4.68 | 4.52 | .48 | 1.68 AMP |
| | | | | 23.45 | 295.88 | 343.82 | 56.58 | 189.14 | 7.68 | 257.37 | 198.49 PHASE |
| | | | | 7.83 | 7.76 | 8.94 | 5.87 | 9.85 | 4.43 | 3.88 | 1.59 AMP |
| | | | | 39.26 | 277.58 | 339.14 | 74.25 | 183.89 | 161.41 | 126.74 | 215.92 PHASE |
| | | | | 2.52 | 7.27 | 5.12 | 1.37 | 6.55 | 8.36 | 1.96 | 1.81 AMP |
| | | | | 147.58 | 311.62 | 7.87 | 19.12 | 242.33 | 243.89 | 188.88 | 182.35 PHASE |
| | | | | 5.88 | 5.68 | 4.65 | 5.55 | 4.43 | 8.64 | 1.75 | .94 AMP |
| | | | | 139.52 | 331.84 | 31.26 | 17.52 | 238.86 | 223.19 | 119.16 | 122.71 PHASE |
| | | | | 2.76 | 5.71 | 4.25 | 1.55 | 4.64 | 9.29 | 1.18 | .72 AMP |
| | | | | 138.74 | 321.86 | 28.87 | 29.86 | 232.52 | 268.79 | 173.68 | 157.89 PHASE |
| | | | | 1.24 | 6.58 | 4.75 | 2.43 | 4.99 | 18.88 | 1.11 | .65 AMP |
| | | | | 57.89 | 314.16 | 6.23 | 29.97 | 221.89 | 272.75 | 285.92 | 142.14 PHASE |
| | | | | 3.69 | 7.42 | 5.47 | 3.32 | 5.98 | 9.61 | 1.38 | .53 AMP |
| | | | | 358.82 | 385.59 | 348.46 | 38.38 | 288.81 | 271.92 | 233.56 | 123.34 PHASE |
| | | | | 6.92 | 8.62 | 8.38 | 5.44 | 5.57 | 5.84 | 1.68 | .73 AMP |
| | | | | .18 | 286.28 | 322.96 | 17.89 | 148.81 | 319.37 | 313.67 | 281.14 PHASE |
| | | | | 7.96 | 9.89 | 18.72 | 5.45 | 9.17 | 5.63 | 3.99 | 1.89 AMP |
| | | | | 9.64 | 269.21 | 316.69 | 14.74 | 117.18 | 59.14 | 6.48 | 235.96 PHASE |

TABLE VI.- Continued

(c) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
| RUN NO | | 35 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | -2.28 | 2.58 | 688 | 1.37 128.97 | .29 274.97 | .51 222.18 | .35 82.75 | .28 358.32 | .14 222.65 | .28 64.44 | .28 315.32 |
| 225 | -2.49 | 2.35 | 688 | 1.43 185.34 | .48 278.35 | .41 226.31 | .31 88.82 | .18 22.25 | .87 285.88 | .11 84.72 | .38 338.81 |
| 226 | -2.74 | 2.38 | 688 | 1.55 93.23 | .51 269.17 | .32 216.41 | .23 96.99 | .16 317.13 | .12 169.96 | .14 5.18 | .21 359.85 |
| 227 | -2.97 | 2.65 | 688 | 1.85 86.93 | .61 288.39 | .41 212.82 | .22 138.38 | .12 236.46 | .13 229.81 | .17 24.81 | .28 21.68 |
| 228 | -3.89 | 3.28 | 688 | 2.31 84.15 | .64 291.86 | .53 211.16 | .17 185.64 | .26 271.18 | .89 387.46 | .18 64.63 | .15 54.36 |
| 229 | -3.32 | 4.24 | 688 | 2.83 78.81 | .76 322.41 | .63 179.27 | .29 189.17 | .37 247.27 | .11 218.37 | .15 77.35 | .22 3.21 |
| 238 | -4.48 | 9.55 | 688 | 3.85 39.88 | 2.88 284.88 | 1.28 271.78 | 1.46 274.16 | 1.98 315.33 | 2.15 32.18 | 1.81 258.18 | .54 26.26 |
| 231 | -2.64 | 2.73 | 688 | 1.54 122.22 | .31 287.58 | .48 218.28 | .37 78.31 | .27 358.47 | .17 216.99 | .24 65.64 | .26 346.93 |
| 232 | -2.84 | 2.63 | 688 | 1.63 111.13 | .35 288.88 | .37 229.94 | .26 188.26 | .19 319.32 | .15 199.41 | .17 51.11 | .22 14.59 |
| 233 | -3.85 | 2.68 | 688 | 1.81 97.28 | .39 284.52 | .33 223.87 | .24 127.88 | .14 383.61 | .15 167.88 | .14 36.31 | .24 358.28 |
| 234 | -3.23 | 2.82 | 688 | 2.14 98.98 | .54 298.74 | .44 227.78 | .21 162.36 | .86 383.56 | .16 156.55 | .88 44.78 | .16 28.94 |
| 235 | -3.39 | 3.73 | 688 | 2.63 88.23 | .72 381.25 | .65 211.62 | .23 176.48 | .22 197.53 | .28 198.83 | .17 3.36 | .16 19.15 |
| 236 | -3.88 | 7.16 | 688 | 3.16 68.89 | 1.14 353.89 | 1.18 161.59 | .96 167.74 | 1.12 194.87 | .79 238.86 | .54 347.86 | .39 53.68 |
| 237 | -4.46 | 9.88 | 688 | 3.58 43.69 | 2.81 352.78 | 1.85 183.85 | 1.82 218.11 | 1.51 222.41 | 1.64 288.15 | 1.24 5.78 | .41 79.14 |
| 238 | -2.89 | 2.92 | 688 | 1.88 127.38 | .42 331.82 | .54 237.95 | .33 188.86 | .28 358.81 | .88 283.21 | .21 77.32 | .15 335.84 |
| 239 | -3.85 | 2.81 | 688 | 1.87 187.88 | .57 385.33 | .68 228.33 | .34 183.87 | .27 337.88 | .86 147.82 | .28 23.86 | .88 299.65 |
| 248 | -3.21 | 2.87 | 688 | 2.89 93.65 | .74 383.98 | .69 219.53 | .38 126.17 | .26 14.33 | .89 95.46 | .17 62.84 | .12 347.71 |
| 241 | -3.39 | 3.55 | 688 | 2.49 85.97 | .97 388.36 | .86 226.87 | .26 138.58 | .38 59.64 | .22 124.87 | .86 83.67 | .23 19.56 |
| 242 | -3.52 | 4.16 | 688 | 2.98 76.36 | 1.13 383.88 | 1.81 214.31 | .17 115.22 | .41 65.27 | .28 129.59 | .18 284.83 | .28 15.58 |
| 243 | -3.88 | 6.14 | 688 | 3.57 66.98 | 1.32 344.74 | 1.25 186.35 | .85 145.37 | .88 171.85 | .75 246.61 | .58 347.58 | .45 76.83 |
| 244 | -4.37 | 8.43 | 688 | 3.73 53.51 | 1.93 346.88 | 1.41 192.75 | .87 177.46 | 1.88 284.99 | 1.47 273.76 | 1.86 348.48 | .51 67.81 |
| 245 | -3.39 | 3.43 | 688 | 2.36 85.25 | .91 381.44 | .83 214.53 | .29 125.48 | .31 29.24 | .15 87.54 | .12 59.63 | .18 338.55 |
| 246 | -3.28 | 2.82 | 687 | 1.91 189.13 | .67 321.92 | .69 231.97 | .21 116.26 | .23 12.89 | .85 185.46 | .12 74.95 | .15 342.87 |
| 247 | -3.37 | 3.18 | 688 | 2.14 96.35 | .81 316.16 | .78 229.86 | .21 137.28 | .17 39.93 | .12 183.88 | .87 115.43 | .17 1.41 |
| 248 | -3.53 | 3.67 | 688 | 2.58 85.88 | .98 389.62 | .86 228.75 | .22 124.43 | .28 78.78 | .22 189.89 | .86 163.42 | .19 22.28 |
| 249 | -3.67 | 4.22 | 688 | 3.88 75.57 | 1.13 383.85 | .96 213.26 | .16 187.18 | .27 73.84 | .31 186.44 | .18 193.83 | .28 358.97 |
| 258 | -3.98 | 5.16 | 688 | 3.68 62.46 | 1.38 328.41 | 1.86 175.43 | .54 94.53 | .66 185.28 | .58 156.84 | .27 246.53 | .31 2.24 |
| 251 | -4.14 | 6.87 | 682 | 3.98 52.61 | 1.51 328.22 | 1.48 159.53 | .86 113.37 | .87 122.35 | .81 198.81 | .42 255.55 | .25 15.98 |

TABLE VI.- Continued

(c) Concluded

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 35 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 224 | -2.91 | 8.86 | 688 | 3.64 | 2.85 | .83 | .98 | .88 | .38 | .45 | .38 AMP |
| | | | | 231.76 | 92.16 | 382.91 | 288.62 | 285.93 | 118.49 | 32.77 | 318.29 PHASE |
| 225 | -2.23 | 8.62 | 688 | 4.82 | 2.61 | .51 | 1.16 | .21 | .19 | .65 | .29 AMP |
| | | | | 238.93 | 89.38 | 322.55 | 285.25 | 26.89 | 76.92 | 52.18 | 326.25 PHASE |
| 226 | -1.38 | 8.95 | 688 | 6.88 | 2.89 | .62 | .88 | .53 | .27 | .49 | .36 AMP |
| | | | | 229.65 | 79.63 | 335.73 | 196.92 | 138.79 | 37.69 | 34.88 | 3.15 PHASE |
| 227 | -.16 | 9.92 | 688 | 7.51 | 1.48 | .95 | .77 | .84 | .36 | .61 | .48 AMP |
| | | | | 226.77 | 73.86 | 16.83 | 283.12 | 188.98 | 74.85 | 55.69 | 6.43 PHASE |
| 228 | 1.13 | 11.87 | 688 | 9.32 | .88 | 1.29 | .92 | 1.43 | .32 | .52 | .57 AMP |
| | | | | 224.88 | 51.65 | 45.16 | 193.22 | 145.88 | 157.45 | 84.36 | 12.94 PHASE |
| 229 | 3.26 | 18.71 | 688 | 13.81 | 1.18 | 2.31 | 1.53 | 1.18 | .87 | 1.42 | .69 AMP |
| | | | | 215.39 | 315.22 | 57.15 | 194.43 | 121.62 | 68.14 | 79.57 | 7.38 PHASE |
| 238 | 6.57 | 31.64 | 688 | 18.45 | 1.76 | 5.62 | 1.81 | 6.67 | 5.85 | 3.84 | 1.79 AMP |
| | | | | 214.92 | 76.94 | 183.55 | 226.22 | 98.52 | 138.84 | 142.82 | 192.92 PHASE |
| 231 | -1.91 | 7.19 | 688 | 3.82 | 2.76 | .87 | 1.82 | .87 | .36 | .59 | .38 AMP |
| | | | | 256.71 | 181.48 | 292.56 | 195.54 | 165.28 | 182.28 | 16.68 | 338.93 PHASE |
| 232 | -1.48 | 6.82 | 688 | 3.73 | 2.58 | .48 | .62 | .49 | .48 | .43 | .41 AMP |
| | | | | 243.38 | 187.95 | 383.29 | 212.72 | 139.64 | 88.61 | 38.89 | 355.91 PHASE |
| 233 | -.66 | 7.38 | 688 | 4.69 | 1.88 | .21 | .52 | .54 | .51 | .68 | .39 AMP |
| | | | | 232.36 | 186.18 | 12.76 | 284.88 | 127.27 | 48.82 | 25.62 | 346.61 PHASE |
| 234 | .14 | 8.94 | 688 | 6.85 | 1.62 | .88 | .78 | .55 | .68 | .57 | .43 AMP |
| | | | | 231.39 | 114.25 | 66.44 | 217.53 | 138.21 | 46.35 | 45.84 | 14.42 PHASE |
| 235 | 1.23 | 12.55 | 688 | 8.24 | 1.38 | 1.84 | 1.36 | .78 | .76 | .68 | .47 AMP |
| | | | | 225.86 | 99.19 | 64.66 | 215.63 | 86.92 | 58.71 | 37.17 | 4.73 PHASE |
| 236 | 3.88 | 19.18 | 688 | 12.88 | .18 | 2.58 | 2.58 | 2.96 | 2.65 | 1.81 | .83 AMP |
| | | | | 219.23 | 57.78 | 65.39 | 253.84 | 27.95 | 62.16 | 83.84 | 87.13 PHASE |
| 237 | 4.56 | 26.62 | 688 | 15.18 | .93 | 4.24 | 2.84 | 6.87 | 4.71 | 2.89 | 1.68 AMP |
| | | | | 216.57 | 88.88 | 78.58 | 272.12 | 47.87 | 98.53 | 116.87 | 142.66 PHASE |
| 238 | -.84 | 5.95 | 688 | 2.88 | 2.88 | .45 | .79 | .18 | .15 | .38 | .12 AMP |
| | | | | 263.69 | 123.28 | 334.53 | 199.96 | 176.99 | 31.28 | 8.29 | 3.97 PHASE |
| 239 | -.39 | 6.78 | 688 | 3.57 | 3.85 | .46 | .67 | .22 | .26 | .18 | .18 AMP |
| | | | | 249.98 | 115.63 | 7.36 | 189.24 | 125.98 | 6.47 | 321.49 | 388.87 PHASE |
| 248 | .11 | 8.11 | 688 | 4.42 | 2.95 | .99 | .94 | .13 | .48 | .53 | .14 AMP |
| | | | | 241.88 | 121.47 | 46.73 | 186.44 | 287.19 | 357.59 | 13.92 | 348.81 PHASE |
| 241 | .73 | 9.15 | 688 | 5.76 | 3.87 | 1.86 | 1.63 | .31 | .82 | .49 | .37 AMP |
| | | | | 237.64 | 126.81 | 68.83 | 283.87 | 386.87 | 27.55 | 43.88 | 352.82 PHASE |
| 242 | 1.44 | 12.82 | 688 | 7.76 | 2.71 | 2.99 | 2.87 | .58 | 1.89 | .33 | .43 AMP |
| | | | | 229.53 | 128.15 | 59.14 | 197.15 | 316.26 | 25.99 | 39.38 | 342.93 PHASE |
| 243 | 2.79 | 18.75 | 688 | 11.61 | 1.78 | 3.52 | 3.88 | 3.13 | 2.57 | 1.17 | 1.85 AMP |
| | | | | 227.24 | 132.53 | 67.47 | 255.88 | 16.54 | 63.78 | 93.92 | 188.12 PHASE |
| 244 | 3.88 | 23.58 | 688 | 13.85 | 1.92 | 4.61 | 2.67 | 5.19 | 4.83 | 2.24 | 1.71 AMP |
| | | | | 222.87 | 125.85 | 64.61 | 266.67 | 31.42 | 76.82 | 114.23 | 122.18 PHASE |
| 245 | .59 | 9.12 | 688 | 5.35 | 3.23 | 1.58 | 1.25 | .18 | .62 | .53 | .28 AMP |
| | | | | 238.78 | 119.82 | 47.59 | 182.17 | 238.61 | .31 | 6.71 | 322.56 PHASE |
| 246 | .55 | 7.84 | 687 | 3.77 | 2.88 | .87 | .86 | .12 | .31 | .36 | .21 AMP |
| | | | | 259.85 | 127.18 | 68.27 | 283.82 | 153.73 | 17.78 | 359.14 | 334.34 PHASE |
| 247 | .95 | 8.16 | 688 | 4.42 | 2.93 | 1.34 | .97 | .25 | .49 | .36 | .25 AMP |
| | | | | 249.73 | 129.59 | 72.29 | 199.84 | 122.83 | 14.21 | 24.63 | 353.56 PHASE |
| 248 | 1.21 | 8.98 | 688 | 5.39 | 3.36 | 1.84 | 1.22 | .28 | .82 | .35 | .25 AMP |
| | | | | 244.63 | 127.78 | 67.88 | 284.81 | 72.88 | 17.31 | 14.85 | 347.61 PHASE |
| 249 | 1.53 | 11.16 | 688 | 6.87 | 3.61 | 2.66 | 1.53 | .14 | 1.85 | .27 | .33 AMP |
| | | | | 237.92 | 123.19 | 61.66 | 197.32 | 348.45 | 7.87 | 343.23 | 352.97 PHASE |
| 258 | 2.43 | 16.38 | 688 | 18.31 | 3.82 | 3.88 | 2.81 | 1.86 | 1.95 | .62 | .97 AMP |
| | | | | 226.84 | 122.57 | 51.68 | 285.85 | 313.28 | 358.86 | 5.55 | 14.75 PHASE |
| 251 | 3.83 | 28.18 | 682 | 22.37 | 2.92 | 4.62 | 2.97 | 3.57 | 2.78 | 1.25 | 1.44 AMP |
| | | | | 221.66 | 117.72 | 39.84 | 218.74 | 322.26 | 353.88 | 35.66 | 34.88 PHASE |

TABLE VI.- Continued

(d) $\mu = 0.30$; $M_T = 0.68$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 255 | .9 | 2.7 | 0.0 | .02998 | .00135 | .00122 |
| 256 | .5 | 4.0 | 2.0 | .04598 | .00100 | .00148 |
| 257 | -.1 | 4.9 | 4.0 | .06279 | .00077 | .00189 |
| 258 | -.5 | 6.1 | 6.0 | .07839 | .00034 | .00261 |
| 259 | -1.2 | 7.4 | 7.9 | .09078 | -.00069 | .00368 |
| 260 | -1.7 | 8.8 | 9.9 | .10108 | -.00209 | .00522 |
| 261 | -1.6 | 10.5 | 12.0 | .10534 | -.00334 | .00722 |
| 262 | .9 | 3.0 | 2.0 | .02428 | -.00089 | .00180 |
| 263 | .7 | 4.1 | 4.0 | .04176 | -.00260 | .00244 |
| 264 | .2 | 5.2 | 6.0 | .05600 | -.00418 | .00323 |
| 265 | -.4 | 6.5 | 8.0 | .07111 | -.00610 | .00429 |
| 266 | -1.0 | 7.7 | 10.1 | .08446 | -.00816 | .00565 |
| 267 | -1.7 | 8.9 | 12.0 | .09481 | -.01035 | .00728 |
| 268 | -1.9 | 9.6 | 13.0 | .09806 | -.01113 | .00837 |
| 269 | 1.0 | 3.4 | 4.0 | .02037 | -.00252 | .00224 |
| 270 | .5 | 4.5 | 6.0 | .03603 | -.00547 | .00326 |
| 271 | .0 | 5.4 | 8.0 | .05257 | -.00844 | .00449 |
| 272 | -.5 | 6.7 | 10.0 | .06612 | -.01121 | .00586 |
| 273 | -1.2 | 7.9 | 12.1 | .08066 | -.01430 | .00743 |
| 274 | -2.1 | 9.0 | 14.0 | .09166 | -.01728 | .00941 |

TABLE VI.- Continued

(d) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | 45.88 | 27.85 | 636 | 18.33 | 12.85 | 7.36 | 3.69 | 4.23 | 2.58 | 2.83 | .42 AMP |
| | | | | 144.56 | 334.47 | 86.89 | 27.53 | 78.16 | 335.68 | 239.64 | 42.94 PHASE |
| 256 | 47.45 | 27.81 | 636 | 18.44 | 12.36 | 6.42 | 3.24 | 4.41 | 2.22 | 2.64 | .25 AMP |
| | | | | 141.66 | 334.14 | 82.89 | 28.78 | 53.26 | 322.78 | 235.38 | 17.91 PHASE |
| 257 | 49.88 | 23.84 | 636 | 9.98 | 11.48 | 5.48 | 2.62 | 3.99 | 1.98 | 2.21 | .29 AMP |
| | | | | 138.58 | 332.38 | 78.85 | 39.87 | 39.83 | 382.85 | 227.48 | 194.28 PHASE |
| 258 | 52.18 | 21.48 | 636 | 9.66 | 11.85 | 4.76 | 2.74 | 3.37 | 1.81 | 1.78 | .39 AMP |
| | | | | 131.86 | 331.54 | 79.27 | 51.34 | 38.88 | 284.14 | 225.89 | 175.41 PHASE |
| 259 | 53.97 | 21.82 | 636 | 9.45 | 18.76 | 4.85 | 2.46 | 2.61 | 2.39 | 2.39 | 1.84 AMP |
| | | | | 123.98 | 334.37 | 83.31 | 54.71 | 7.66 | 272.17 | 236.31 | 181.24 PHASE |
| 260 | 55.16 | 29.88 | 636 | 9.59 | 18.95 | 3.42 | 3.26 | 3.98 | 4.62 | 3.98 | 1.97 AMP |
| | | | | 118.49 | 341.32 | 77.19 | 24.94 | 384.47 | 284.81 | 267.26 | 284.81 PHASE |
| 261 | 56.11 | 37.97 | 637 | 11.51 | 12.34 | 1.97 | 5.14 | 7.31 | 6.57 | 1.42 | 2.25 AMP |
| | | | | 94.98 | 336.28 | 78.51 | 31.84 | 321.71 | 324.58 | 327.14 | 212.83 PHASE |
| 262 | 45.69 | 25.89 | 641 | 8.93 | 12.44 | 7.82 | 4.27 | 2.74 | 1.31 | 1.67 | .68 AMP |
| | | | | 148.68 | 334.17 | 86.39 | 12.83 | 65.87 | 328.43 | 283.84 | 28.48 PHASE |
| 263 | 48.35 | 25.14 | 648 | 8.88 | 12.53 | 6.84 | 3.99 | 3.28 | 1.23 | 1.81 | .68 AMP |
| | | | | 143.23 | 339.98 | 98.18 | 17.68 | 78.51 | 328.49 | 216.27 | 46.34 PHASE |
| 264 | 58.65 | 24.34 | 648 | 8.78 | 12.43 | 6.36 | 3.91 | 3.84 | .99 | 1.82 | .55 AMP |
| | | | | 148.27 | 338.92 | 88.72 | 23.48 | 83.98 | 337.75 | 218.16 | 57.64 PHASE |
| 265 | 53.81 | 23.29 | 648 | 8.48 | 12.16 | 5.81 | 3.28 | 3.51 | .67 | 1.51 | .47 AMP |
| | | | | 131.77 | 335.81 | 88.96 | 21.34 | 88.19 | 381.98 | 287.25 | 61.68 PHASE |
| 266 | 55.17 | 21.88 | 648 | 8.22 | 11.58 | 5.25 | 2.53 | 2.73 | 1.18 | 1.15 | .34 AMP |
| | | | | 128.49 | 337.56 | 91.27 | 24.36 | 93.39 | 268.67 | 282.54 | 69.28 PHASE |
| 267 | 56.88 | 26.69 | 648 | 8.44 | 11.24 | 3.73 | 2.59 | 2.94 | 2.98 | 2.66 | .91 AMP |
| | | | | 182.35 | 334.31 | 72.93 | 344.76 | 165.19 | 245.86 | 197.87 | 116.95 PHASE |
| 268 | 57.55 | 31.22 | 648 | 9.44 | 11.21 | 3.23 | 4.98 | 1.52 | 4.66 | 1.62 | .84 AMP |
| | | | | 93.61 | 336.31 | 78.15 | 2.67 | 288.43 | 285.54 | 254.84 | 171.86 PHASE |
| 269 | 46.49 | 21.64 | 648 | 7.63 | 18.56 | 6.21 | 3.92 | 2.72 | 1.38 | 1.88 | .45 AMP |
| | | | | 141.78 | 337.81 | 82.33 | 6.26 | 53.64 | 332.69 | 287.94 | 6.76 PHASE |
| 270 | 49.86 | 21.47 | 648 | 7.67 | 18.99 | 6.13 | 4.82 | 2.95 | 1.87 | .95 | .41 AMP |
| | | | | 148.84 | 339.24 | 88.71 | 2.76 | 51.64 | 331.93 | 288.38 | 353.96 PHASE |
| 271 | 51.67 | 28.86 | 648 | 7.42 | 18.57 | 5.59 | 3.82 | 3.28 | .89 | .96 | .84 AMP |
| | | | | 136.13 | 336.96 | 74.98 | 2.33 | 49.21 | 324.48 | 198.11 | 144.89 PHASE |
| 272 | 54.17 | 28.27 | 648 | 7.46 | 18.76 | 4.99 | 3.64 | 3.87 | .72 | 1.14 | .26 AMP |
| | | | | 128.88 | 336.34 | 78.68 | 2.29 | 53.71 | 332.16 | 175.37 | 165.63 PHASE |
| 273 | 56.62 | 28.21 | 648 | 7.38 | 18.74 | 3.91 | 3.12 | 2.48 | .37 | 1.12 | .38 AMP |
| | | | | 112.64 | 331.59 | 68.39 | 347.78 | 35.26 | 316.37 | 158.24 | 156.75 PHASE |
| 274 | 58.58 | 23.44 | 639 | 7.83 | 18.71 | 2.19 | 3.66 | .48 | 1.88 | 1.64 | .61 AMP |
| | | | | 92.22 | 337.68 | 63.86 | 318.88 | 218.28 | 218.93 | 185.94 | 182.81 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | 53.31 | 58.94 | 636 | 15.75 | 18.72 | 7.28 | 7.78 | 9.44 | 11.13 | 2.25 | .88 AMP |
| | | | | 277.68 | 157.78 | 274.22 | 135.24 | 286.35 | 281.97 | 131.47 | 53.84 PHASE |
| 256 | 52.82 | 63.23 | 636 | 26.82 | 17.28 | 12.81 | 6.25 | 12.88 | 8.59 | 1.74 | .86 AMP |
| | | | | 296.66 | 165.88 | 284.72 | 128.88 | 263.65 | 288.55 | 118.42 | 45.56 PHASE |
| 257 | 58.43 | 69.12 | 636 | 39.15 | 28.79 | 15.18 | 6.36 | 14.34 | 6.48 | 1.22 | .93 AMP |
| | | | | 317.36 | 171.97 | 271.75 | 94.53 | 274.74 | 227.42 | 187.42 | 55.38 PHASE |
| 258 | 48.84 | 83.18 | 636 | 56.74 | 22.48 | 18.72 | 8.49 | 12.63 | 4.43 | .45 | 1.87 AMP |
| | | | | 338.84 | 176.44 | 269.68 | 75.84 | 289.17 | 225.87 | 97.85 | 36.88 PHASE |
| 259 | 47.71 | 99.43 | 636 | 72.44 | 24.58 | 24.72 | 11.72 | 7.29 | 3.26 | 2.18 | 1.24 AMP |
| | | | | 348.79 | 185.36 | 278.66 | 66.42 | 389.83 | 19.88 | 314.31 | 39.12 PHASE |
| 260 | 49.86 | 126.29 | 636 | 87.88 | 28.78 | 33.86 | 14.54 | 3.65 | 12.82 | 1.49 | 1.16 AMP |
| | | | | 353.61 | 196.74 | 277.13 | 62.72 | 189.73 | 94.79 | 328.88 | 358.52 PHASE |
| 261 | 54.68 | 167.92 | 637 | 188.27 | 42.22 | 41.91 | 13.79 | 22.55 | 38.71 | 4.24 | 5.86 AMP |
| | | | | 5.58 | 288.62 | 276.78 | 91.28 | 177.67 | 169.68 | 225.57 | 17.38 PHASE |
| 262 | 51.29 | 48.89 | 641 | 8.99 | 13.34 | 7.82 | 2.76 | 7.95 | 9.59 | 1.17 | .36 AMP |
| | | | | 274.43 | 162.36 | 276.36 | 145.84 | 276.64 | 154.76 | 34.66 | 112.45 PHASE |
| 263 | 52.18 | 54.54 | 648 | 18.81 | 19.38 | 11.98 | 2.63 | 7.88 | 12.34 | 1.48 | .53 AMP |
| | | | | 318.15 | 172.89 | 382.87 | 158.19 | 255.56 | 145.87 | 188.84 | 188.84 PHASE |
| 264 | 52.17 | 67.43 | 648 | 32.72 | 24.67 | 15.88 | 4.22 | 9.69 | 14.25 | 1.98 | .54 AMP |
| | | | | 338.44 | 184.81 | 295.25 | 181.74 | 258.28 | 168.57 | 49.95 | 218.35 PHASE |
| 265 | 52.88 | 93.33 | 648 | 58.46 | 29.48 | 21.74 | 6.86 | 12.12 | 13.79 | 1.15 | 1.31 AMP |
| | | | | 338.98 | 188.83 | 278.59 | 85.38 | 253.66 | 175.88 | 84.62 | 248.98 PHASE |
| 266 | 51.94 | 114.57 | 648 | 71.67 | 33.84 | 38.35 | 9.18 | 18.27 | 8.58 | .83 | 1.93 AMP |
| | | | | 347.78 | 199.49 | 279.35 | 74.94 | 256.47 | 197.63 | 175.66 | 264.35 PHASE |
| 267 | 54.36 | 132.92 | 648 | 98.95 | 37.88 | 38.87 | 18.21 | 7.38 | 3.59 | 1.11 | 2.87 AMP |
| | | | | 349.92 | 282.87 | 266.78 | 45.55 | 194.71 | 75.32 | 265.99 | 265.87 PHASE |
| 268 | 58.25 | 173.75 | 648 | 182.82 | 41.73 | 43.38 | 11.68 | 14.53 | 23.49 | 2.88 | 1.94 AMP |
| | | | | 6.68 | 287.33 | 274.31 | 64.36 | 171.53 | 188.88 | 133.95 | 311.68 PHASE |
| 269 | 58.72 | 38.73 | 648 | 6.82 | 15.13 | 8.76 | 2.83 | 6.83 | 9.88 | .68 | .66 AMP |
| | | | | 288.98 | 173.44 | 286.35 | 281.14 | 268.68 | 158.43 | 348.95 | 115.77 PHASE |
| 270 | 52.76 | 58.84 | 648 | 15.47 | 28.39 | 11.76 | 1.13 | 8.17 | 14.46 | 1.48 | .78 AMP |
| | | | | 321.47 | 177.46 | 295.36 | 215.44 | 238.82 | 139.86 | 357.96 | 135.59 PHASE |
| 271 | 54.53 | 78.98 | 648 | 32.49 | 26.14 | 15.49 | 2.58 | 8.32 | 17.88 | 1.98 | .79 AMP |
| | | | | 341.58 | 187.42 | 278.16 | 64.63 | 218.41 | 155.92 | 41.83 | 198.81 PHASE |
| 272 | 56.36 | 182.19 | 648 | 53.41 | 31.32 | 31.94 | 5.19 | 18.26 | 17.83 | 1.69 | 1.15 AMP |
| | | | | 348.23 | 194.27 | 267.93 | 58.65 | 287.43 | 177.12 | 65.27 | 213.42 PHASE |
| 273 | 58.16 | 131.78 | 648 | 78.28 | 36.36 | 29.26 | 7.19 | 12.44 | 13.36 | 1.83 | 1.67 AMP |
| | | | | 349.32 | 197.81 | 257.68 | 42.97 | 185.28 | 179.66 | 81.47 | 284.58 PHASE |
| 274 | 68.35 | 159.85 | 639 | 186.74 | 41.88 | 38.83 | 6.42 | 13.81 | 3.88 | .55 | 1.55 AMP |
| | | | | 355.24 | 289.99 | 259.13 | 22.77 | 159.33 | 345.84 | 381.98 | 235.78 PHASE |

TABLE VI.- Continued

(d) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | 5.59 | 7.86 | 636 | 2.88 | 3.38 | 1.99 | 1.18 | .18 | .46 | .33 | .17 |
| | | | | 71.73 | 291.58 | 148.83 | 2.29 | 112.68 | 333.86 | 286.13 | 151.42 |
| 256 | 4.73 | 7.59 | 636 | 2.79 | 3.21 | 1.59 | 1.88 | .38 | .35 | .38 | .27 |
| | | | | 66.63 | 293.98 | 147.65 | 16.99 | 217.86 | 381.88 | 211.68 | 178.85 |
| 257 | 3.67 | 7.31 | 636 | 3.89 | 2.65 | 1.22 | 1.87 | .29 | .31 | .41 | .34 |
| | | | | 57.87 | 293.55 | 175.88 | 21.99 | 165.78 | 264.93 | 192.16 | 192.25 |
| 258 | 2.28 | 8.34 | 636 | 5.73 | 1.97 | 1.76 | 1.58 | .45 | .16 | .51 | .25 |
| | | | | 58.88 | 285.24 | 213.56 | 14.88 | 158.39 | 215.94 | 195.39 | 282.39 |
| 259 | .61 | 12.39 | 636 | 8.34 | .97 | 2.99 | 2.18 | .61 | .31 | .48 | .27 |
| | | | | 45.22 | 255.74 | 234.99 | 19.82 | 158.16 | 289.85 | 222.69 | 214.81 |
| 260 | -2.28 | 19.75 | 636 | 12.98 | 1.18 | 3.88 | 3.85 | 3.12 | 1.88 | 1.44 | .94 |
| | | | | 41.86 | 163.86 | 251.39 | 81.49 | 281.67 | 257.55 | 291.52 | 345.63 |
| 261 | -6.14 | 29.95 | 637 | 18.54 | 2.41 | 6.88 | .64 | 7.83 | 4.78 | 2.71 | 2.68 |
| | | | | 38.59 | 222.98 | 268.89 | 169.55 | 257.66 | 319.37 | 346.64 | 29.59 |
| 262 | 4.33 | 6.15 | 641 | 2.84 | 3.81 | 1.44 | .72 | .46 | .13 | .19 | .15 |
| | | | | 91.88 | 388.18 | 141.73 | 346.55 | 213.56 | 352.72 | 128.88 | 12.63 |
| 263 | 3.69 | 7.15 | 648 | 2.74 | 3.53 | 1.68 | .52 | .58 | .18 | .24 | .16 |
| | | | | 83.72 | 313.38 | 168.18 | 13.17 | 241.93 | 284.68 | 184.37 | 15.73 |
| 264 | 2.89 | 8.18 | 648 | 3.78 | 3.65 | 1.72 | .99 | .29 | .13 | .38 | .14 |
| | | | | 73.93 | 312.18 | 193.56 | 9.26 | 137.95 | 251.13 | 117.54 | 28.31 |
| 265 | 1.82 | 9.96 | 648 | 5.16 | 3.53 | 2.33 | 1.66 | .94 | .21 | .22 | .87 |
| | | | | 62.39 | 386.82 | 217.11 | 8.71 | 132.96 | 281.79 | 122.94 | 16.88 |
| 266 | -.84 | 13.88 | 648 | 8.18 | 2.87 | 4.28 | 2.78 | 1.49 | .37 | .12 | .85 |
| | | | | 51.73 | 299.18 | 239.71 | 14.27 | 138.83 | 228.73 | 117.24 | 164.58 |
| 267 | -1.92 | 19.78 | 648 | 11.54 | .83 | 4.19 | 3.57 | 3.48 | 1.38 | .82 | .73 |
| | | | | 42.83 | 292.68 | 248.18 | 58.58 | 153.48 | 287.28 | 233.41 | 277.49 |
| 268 | -3.98 | 26.15 | 648 | 14.86 | .65 | 5.13 | 3.12 | 5.56 | 3.17 | 2.82 | 1.88 |
| | | | | 48.71 | 232.89 | 246.11 | 93.47 | 197.82 | 268.13 | 297.38 | 328.32 |
| 269 | 3.81 | 5.98 | 648 | 2.81 | 3.16 | 1.32 | .61 | .44 | .13 | .16 | .89 |
| | | | | 98.13 | 314.73 | 171.85 | 18.58 | 232.56 | 389.85 | 148.66 | 68.84 |
| 270 | 3.28 | 7.12 | 648 | 2.64 | 3.57 | 1.67 | .68 | .51 | .87 | .14 | .11 |
| | | | | 79.93 | 313.93 | 183.94 | 38.87 | 254.89 | 388.85 | 129.91 | 38.81 |
| 271 | 2.56 | 8.85 | 648 | 3.43 | 3.72 | 2.86 | .75 | .13 | .13 | .17 | .16 |
| | | | | 78.96 | 312.16 | 196.46 | 14.98 | 217.32 | 119.54 | 135.47 | 48.63 |
| 272 | 1.88 | 9.58 | 648 | 4.44 | 4.88 | 2.68 | 1.34 | .43 | .48 | .28 | .28 |
| | | | | 64.62 | 318.71 | 211.88 | .66 | 118.96 | 136.29 | 165.93 | 53.88 |
| 273 | .86 | 11.51 | 648 | 6.31 | 3.64 | 3.76 | 2.28 | 1.22 | .82 | .15 | .22 |
| | | | | 53.35 | 382.38 | 222.38 | 354.12 | 184.59 | 141.89 | 158.11 | 68.85 |
| 274 | -.96 | 17.43 | 639 | 18.89 | 2.21 | 4.45 | 3.78 | 3.31 | 1.73 | .71 | .47 |
| | | | | 44.82 | 313.35 | 239.16 | 33.79 | 129.81 | 169.79 | 223.69 | 238.42 |

TABLE VI.- Continued

(d) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | 28.88 | 38.64 | 636 | 15.46 | 15.94 | 8.43 | 2.34 | 2.65 | .72 | .37 | .28 AMP |
| | | | | 141.33 | 338.83 | 78.52 | 26.98 | 67.63 | 344.78 | 265.88 | 222.83 PHASE |
| 256 | 31.25 | 29.71 | 636 | 16.89 | 15.39 | 7.56 | 2.81 | 2.88 | .56 | .49 | .27 AMP |
| | | | | 139.53 | 337.45 | 73.44 | 38.26 | 49.28 | 328.42 | 241.88 | 217.97 PHASE |
| 257 | 33.71 | 27.87 | 636 | 16.38 | 13.96 | 6.94 | 1.56 | 2.61 | .47 | .43 | .17 AMP |
| | | | | 137.54 | 335.38 | 67.72 | 54.22 | 37.33 | 291.87 | 234.55 | 248.83 PHASE |
| 258 | 36.81 | 27.59 | 636 | 16.63 | 13.41 | 6.63 | 1.77 | 2.33 | .52 | .52 | .18 AMP |
| | | | | 134.46 | 333.59 | 67.49 | 74.88 | 24.94 | 259.88 | 232.15 | 233.75 PHASE |
| 259 | 38.84 | 28.21 | 636 | 16.75 | 13.49 | 6.48 | 1.56 | 2.16 | .74 | .54 | .13 AMP |
| | | | | 132.21 | 335.88 | 69.51 | 98.89 | 1.28 | 248.49 | 248.39 | 18.29 PHASE |
| 268 | 39.72 | 38.18 | 636 | 16.84 | 14.83 | 6.77 | 1.51 | 2.93 | 1.14 | .19 | .46 AMP |
| | | | | 129.75 | 339.66 | 66.11 | 37.58 | 321.87 | 262.52 | 253.26 | 64.53 PHASE |
| 261 | 48.97 | 35.43 | 637 | 17.39 | 18.41 | 6.59 | 3.15 | 4.96 | .86 | .39 | .57 AMP |
| | | | | 122.59 | 335.71 | 68.73 | 44.95 | 332.28 | 384.46 | 184.78 | 93.93 PHASE |
| 262 | 38.66 | 29.53 | 641 | 13.69 | 16.29 | 8.45 | 3.82 | 1.82 | .49 | .34 | .38 AMP |
| | | | | 138.32 | 338.11 | 78.66 | 18.84 | 54.18 | 318.62 | 267.17 | 179.96 PHASE |
| 263 | 33.24 | 38.51 | 648 | 14.26 | 16.39 | 8.44 | 2.65 | 2.14 | .39 | .36 | .36 AMP |
| | | | | 148.87 | 343.43 | 82.98 | 17.21 | 65.38 | 325.52 | 265.27 | 288.79 PHASE |
| 264 | 35.51 | 29.35 | 648 | 14.83 | 15.83 | 8.21 | 2.39 | 2.14 | .17 | .22 | .26 AMP |
| | | | | 139.24 | 342.79 | 82.11 | 23.81 | 78.45 | 333.75 | 288.24 | 283.68 PHASE |
| 265 | 38.81 | 29.47 | 648 | 15.17 | 15.24 | 8.83 | 1.83 | 1.85 | .25 | .24 | .24 AMP |
| | | | | 135.81 | 337.83 | 73.78 | 24.83 | 68.35 | 226.87 | 244.38 | 188.57 PHASE |
| 266 | 48.28 | 28.77 | 648 | 15.29 | 14.66 | 7.96 | 1.14 | 1.27 | .58 | .38 | .18 AMP |
| | | | | 138.43 | 348.45 | 82.14 | 46.31 | 65.36 | 229.97 | 262.38 | 196.83 PHASE |
| 267 | 42.34 | 28.64 | 648 | 15.35 | 14.85 | 7.27 | 1.88 | .85 | 1.88 | .45 | .89 AMP |
| | | | | 123.24 | 334.65 | 64.86 | 344.92 | 289.17 | 234.42 | 288.92 | 337.83 PHASE |
| 268 | 43.11 | 38.31 | 648 | 15.32 | 15.77 | 7.78 | 3.15 | 1.93 | .94 | .18 | .33 AMP |
| | | | | 122.87 | 336.18 | 69.89 | 18.58 | 318.89 | 266.88 | 332.62 | 188.88 PHASE |
| 269 | 32.68 | 25.82 | 648 | 11.81 | 14.88 | 7.87 | 2.55 | 1.95 | .38 | .36 | .32 AMP |
| | | | | 138.18 | 342.28 | 76.15 | .98 | 41.81 | 298.12 | 278.12 | 192.28 PHASE |
| 278 | 35.11 | 25.71 | 648 | 12.22 | 14.84 | 7.96 | 2.81 | 2.24 | .12 | .26 | .25 AMP |
| | | | | 138.66 | 342.68 | 75.13 | 356.64 | 39.33 | 297.99 | 261.78 | 188.46 PHASE |
| 271 | 37.65 | 25.63 | 648 | 12.74 | 13.99 | 7.84 | 2.51 | 2.22 | .18 | .19 | .15 AMP |
| | | | | 138.89 | 348.94 | 78.88 | 352.39 | 36.49 | 226.68 | 274.78 | 171.42 PHASE |
| 272 | 48.18 | 25.93 | 648 | 13.32 | 14.35 | 7.98 | 2.22 | 1.97 | .38 | .32 | .32 AMP |
| | | | | 136.47 | 339.87 | 66.69 | 352.72 | 36.42 | 221.33 | 292.75 | 112.25 PHASE |
| 273 | 42.77 | 25.74 | 648 | 13.81 | 14.37 | 7.27 | 1.66 | 1.63 | .52 | .31 | .12 AMP |
| | | | | 138.63 | 334.47 | 63.37 | 348.61 | 11.87 | 286.48 | 276.55 | 88.71 PHASE |
| 274 | 45.88 | 25.11 | 639 | 13.92 | 14.19 | 6.84 | 2.38 | .94 | .89 | .58 | .15 AMP |
| | | | | 125.68 | 338.87 | 62.85 | 386.83 | 283.46 | 228.37 | 293.59 | 21.94 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | 34.28 | 52.85 | 636 | 15.12 | 9.41 | 4.37 | 8.18 | 11.72 | 15.91 | 3.84 | .78 AMP |
| | | | | 288.68 | 152.29 | 388.19 | 139.58 | 286.48 | 281.98 | 131.65 | 41.43 PHASE |
| 256 | 32.14 | 68.85 | 636 | 22.33 | 15.82 | 9.72 | 7.62 | 15.53 | 18.95 | 4.88 | 18.95 PHASE |
| | | | | 298.84 | 163.89 | 387.25 | 126.91 | 264.93 | 214.68 | 119.48 | 58.15 PHASE |
| 257 | 29.81 | 67.41 | 636 | 31.92 | 18.23 | 12.36 | 8.63 | 17.98 | 7.96 | 3.88 | 1.18 AMP |
| | | | | 316.65 | 169.28 | 294.46 | 188.31 | 276.59 | 232.63 | 128.51 | 31.73 PHASE |
| 258 | 27.36 | 79.88 | 636 | 44.91 | 28.46 | 16.87 | 18.96 | 16.29 | 5.87 | 2.37 | 2.28 AMP |
| | | | | 329.41 | 173.51 | 292.54 | 84.54 | 292.55 | 223.62 | 168.92 | 34.31 PHASE |
| 259 | 25.19 | 86.28 | 636 | 57.13 | 23.71 | 21.98 | 14.48 | 18.55 | 6.54 | 3.58 | 2.68 AMP |
| | | | | 339.56 | 181.86 | 291.48 | 73.84 | 316.97 | 29.18 | 269.88 | 41.85 PHASE |
| 268 | 25.84 | 183.89 | 636 | 68.39 | 29.85 | 31.86 | 18.83 | 3.67 | 28.58 | 3.27 | 2.79 AMP |
| | | | | 352.52 | 194.25 | 299.57 | 68.61 | 61.38 | 91.35 | 296.33 | 36.46 PHASE |
| 261 | 28.89 | 147.84 | 637 | 76.65 | 43.99 | 38.13 | 19.13 | 23.53 | 57.98 | 8.51 | 7.15 AMP |
| | | | | 5.68 | 288.88 | 381.96 | 99.22 | 185.94 | 169.59 | 287.83 | 26.21 PHASE |
| 262 | 31.97 | 45.15 | 641 | 9.38 | 18.95 | 4.48 | 2.59 | 9.82 | 14.88 | .27 | 1.27 AMP |
| | | | | 279.86 | 158.89 | 313.89 | 155.26 | 278.94 | 152.98 | 313.41 | 68.49 PHASE |
| 263 | 31.83 | 54.65 | 648 | 16.25 | 15.47 | 9.58 | 2.97 | 8.48 | 18.48 | .61 | .78 AMP |
| | | | | 387.67 | 171.61 | 338.28 | 168.42 | 261.24 | 138.13 | 21.61 | 85.16 PHASE |
| 264 | 38.98 | 65.53 | 648 | 26.18 | 28.35 | 13.25 | 5.43 | 18.98 | 21.53 | 2.54 | 2.54 AMP |
| | | | | 327.26 | 183.76 | 322.47 | 186.27 | 261.97 | 15.58 | 63.35 | 121.85 PHASE |
| 265 | 29.94 | 79.88 | 648 | 32.88 | 24.61 | 17.84 | 8.64 | 14.15 | 21.83 | 1.81 | .37 AMP |
| | | | | 336.86 | 187.18 | 383.59 | 93.18 | 253.49 | 171.96 | 188.14 | 168.38 PHASE |
| 266 | 28.12 | 97.38 | 648 | 55.63 | 29.69 | 25.55 | 11.75 | 12.65 | 14.16 | 3.25 | .91 AMP |
| | | | | 345.88 | 196.38 | 388.82 | 86.28 | 253.15 | 197.25 | 211.48 | 279.19 PHASE |
| 267 | 28.88 | 112.92 | 648 | 69.36 | 34.18 | 33.29 | 13.27 | 9.39 | 4.69 | 3.79 | 1.44 AMP |
| | | | | 348.56 | 198.48 | 286.94 | 53.85 | 194.85 | 85.43 | 257.87 | 281.91 PHASE |
| 268 | 31.98 | 146.12 | 648 | 76.68 | 39.96 | 38.42 | 16.47 | 18.38 | 34.71 | 3.45 | 1.91 AMP |
| | | | | 359.59 | 283.88 | 295.44 | 71.52 | 171.27 | 111.11 | 115.94 | 289.78 PHASE |
| 269 | 38.89 | 48.29 | 648 | 5.68 | 11.99 | 5.89 | 2.88 | 8.83 | 15.81 | 2.13 | 1.68 AMP |
| | | | | 286.88 | 174.83 | 324.52 | 289.94 | 262.68 | 157.42 | 259.84 | 66.68 PHASE |
| 278 | 32.16 | 49.68 | 648 | 12.12 | 16.19 | 9.21 | 1.18 | 8.55 | 22.87 | 1.38 | 1.84 AMP |
| | | | | 318.44 | 178.55 | 326.93 | 219.69 | 231.69 | 135.58 | 312.88 | 92.82 PHASE |
| 271 | 32.78 | 61.78 | 648 | 24.83 | 28.62 | 11.31 | 2.82 | 8.37 | 26.71 | 2.97 | .98 AMP |
| | | | | 337.38 | 188.38 | 387.27 | 68.84 | 217.37 | 152.59 | 47.44 | 128.78 PHASE |
| 272 | 33.47 | 87.89 | 648 | 39.86 | 24.65 | 15.89 | 5.99 | 18.83 | 27.98 | 2.62 | .91 AMP |
| | | | | 344.48 | 195.84 | 292.31 | 62.82 | 282.92 | 175.58 | 71.85 | 136.21 PHASE |
| 273 | 33.88 | 109.63 | 648 | 57.24 | 29.89 | 22.88 | 8.62 | 14.19 | 23.22 | 1.27 | 1.89 AMP |
| | | | | 346.24 | 197.33 | 277.92 | 58.51 | 179.77 | 178.87 | 118.94 | 167.66 PHASE |
| 274 | 34.53 | 122.28 | 639 | 77.31 | 35.38 | 31.37 | 9.38 | 16.21 | 3.32 | 2.84 | 1.64 AMP |
| | | | | 353.12 | 287.95 | 277.56 | 386.83 | 154.71 | 299.72 | 277.78 | 233.97 PHASE |

TABLE VI.- Continued

(d) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 36 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 255 | 4.36 | 6.39 | 636 | 2.89 | 2.58 | 1.67 | .77 | .88 | .28 | .11 | .88 | AMP |
| | | | | 45.49 | 268.48 | 128.17 | 334.58 | 213.26 | 283.71 | 114.11 | 83.58 | PHASE |
| 256 | 3.58 | 6.29 | 636 | 2.87 | 2.39 | 1.42 | .72 | .48 | .12 | .86 | .13 | AMP |
| | | | | 44.28 | 272.38 | 135.16 | 346.28 | 282.73 | 227.55 | 171.43 | 123.21 | PHASE |
| 257 | 2.52 | 6.15 | 636 | 3.85 | 1.97 | 1.32 | .78 | .23 | .21 | .13 | .17 | AMP |
| | | | | 48.57 | 273.42 | 156.88 | 343.96 | 161.26 | 166.79 | 131.68 | 137.98 | PHASE |
| 258 | 1.32 | 7.29 | 636 | 5.39 | 1.58 | 1.81 | 1.22 | .35 | .25 | .21 | .15 | AMP |
| | | | | 36.45 | 267.16 | 183.31 | 332.18 | 138.94 | 124.28 | 148.74 | 158.46 | PHASE |
| 259 | -.13 | 11.86 | 636 | 7.59 | .72 | 2.74 | 1.75 | .54 | .33 | .22 | .16 | AMP |
| | | | | 34.82 | 233.87 | 283.57 | 339.37 | 122.78 | 148.86 | 189.61 | 164.85 | PHASE |
| 268 | -2.62 | 17.16 | 636 | 11.48 | 1.85 | 2.74 | 2.29 | 2.68 | 1.48 | 1.84 | .66 | AMP |
| | | | | 38.88 | 139.89 | 215.28 | 51.24 | 159.89 | 211.78 | 253.24 | 286.95 | PHASE |
| 261 | -5.88 | 25.84 | 637 | 16.46 | 1.75 | 5.23 | .52 | 5.65 | 4.85 | 2.16 | 1.66 | AMP |
| | | | | 28.84 | 196.89 | 237.92 | 284.46 | 218.88 | 277.38 | 384.45 | 329.63 | PHASE |
| 262 | 3.63 | 4.91 | 641 | 1.95 | 2.18 | 1.25 | .46 | .48 | .82 | .13 | .18 | AMP |
| | | | | 59.13 | 288.36 | 131.28 | 315.57 | 192.68 | 41.44 | 36.81 | 326.28 | PHASE |
| 263 | 2.97 | 5.92 | 648 | 2.74 | 2.64 | 1.48 | .28 | .55 | .12 | .23 | .88 | AMP |
| | | | | 56.67 | 294.36 | 147.75 | 358.18 | 216.58 | 195.18 | 14.41 | 386.33 | PHASE |
| 264 | 2.16 | 6.87 | 648 | 3.74 | 2.78 | 1.76 | .78 | .86 | .15 | .26 | .88 | AMP |
| | | | | 52.14 | 293.85 | 174.53 | 332.89 | 181.48 | 147.71 | 33.44 | 292.66 | PHASE |
| 265 | 1.14 | 8.41 | 648 | 5.18 | 2.66 | 2.31 | 1.38 | .56 | .23 | .12 | .84 | AMP |
| | | | | 45.97 | 287.45 | 191.58 | 335.73 | 92.82 | 124.69 | 26.72 | 273.36 | PHASE |
| 266 | -.53 | 12.53 | 648 | 7.78 | 1.47 | 3.82 | 2.22 | 1.89 | .27 | .18 | .85 | AMP |
| | | | | 39.78 | 274.93 | 213.62 | 343.59 | 98.18 | 165.88 | 354.13 | 125.93 | PHASE |
| 267 | -2.38 | 17.64 | 648 | 18.74 | 3.41 | 3.62 | 2.95 | 2.88 | 1.87 | .64 | .48 | AMP |
| | | | | 32.37 | 253.35 | 218.42 | 24.91 | 115.11 | 157.94 | 198.76 | 222.61 | PHASE |
| 268 | -4.12 | 22.93 | 648 | 13.61 | .54 | 4.39 | 2.51 | 4.58 | 2.47 | 1.67 | 1.28 | AMP |
| | | | | 38.58 | 178.86 | 216.36 | 78.35 | 168.36 | 215.86 | 253.53 | 274.41 | PHASE |
| 269 | 3.13 | 5.21 | 648 | 2.85 | 2.39 | 1.33 | .38 | .47 | .86 | .86 | .86 | AMP |
| | | | | 56.37 | 297.76 | 168.26 | .28 | 283.87 | 229.86 | 44.38 | 18.81 | PHASE |
| 278 | 2.48 | 6.31 | 648 | 2.74 | 2.75 | 1.69 | .37 | .57 | .83 | .18 | .89 | AMP |
| | | | | 53.81 | 297.89 | 167.64 | 24.43 | 219.76 | 134.78 | 14.76 | 325.56 | PHASE |
| 271 | 1.88 | 7.18 | 648 | 3.53 | 2.91 | 2.89 | .47 | .21 | .16 | .87 | .18 | AMP |
| | | | | 48.99 | 295.48 | 174.78 | 347.48 | 224.58 | 76.29 | 39.49 | 348.38 | PHASE |
| 272 | 1.89 | 8.46 | 648 | 4.58 | 3.15 | 2.55 | .99 | .28 | .42 | .88 | .14 | AMP |
| | | | | 45.76 | 294.37 | 184.94 | 329.63 | 65.69 | 84.48 | 133.18 | 352.96 | PHASE |
| 273 | .12 | 18.88 | 648 | 6.17 | 2.88 | 3.38 | 1.64 | .92 | .67 | .89 | .17 | AMP |
| | | | | 39.61 | 284.57 | 194.88 | 324.88 | 62.73 | 88.62 | 166.42 | 351.52 | PHASE |
| 274 | -1.66 | 15.82 | 639 | 9.53 | 1.57 | 3.69 | 3.27 | 2.78 | 1.32 | .59 | .28 | AMP |
| | | | | 33.72 | 291.79 | 211.97 | 8.59 | 98.97 | 122.63 | 182.79 | 194.97 | PHASE |

TABLE VI.- Continued

(d) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| RUN NO | | 36 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 255 | 15.55 | 38.77 | 636 | 19.31 137.38 | 28.37 335.24 | 9.55 62.87 | 1.83 348.62 | .79 271.87 | 1.24 138.68 | 2.55 47.38 | .34 244.87 | AMP PHASE |
| 256 | 18.88 | 37.85 | 636 | 28.15 135.12 | 19.43 333.98 | 8.99 56.24 | 1.83 337.99 | .48 288.99 | 1.18 112.79 | 2.47 42.59 | .18 51.56 | AMP PHASE |
| 257 | 28.83 | 35.11 | 636 | 28.32 133.76 | 17.43 338.29 | 8.66 49.62 | .91 338.97 | .27 23.28 | 1.27 94.82 | 2.84 39.27 | .58 19.77 | AMP PHASE |
| 258 | 23.46 | 34.69 | 636 | 21.11 131.88 | 16.66 326.86 | 8.58 48.33 | .55 319.85 | .29 44.89 | 1.13 85.86 | 1.59 39.78 | .61 5.37 | AMP PHASE |
| 259 | 26.88 | 34.95 | 636 | 21.95 138.86 | 16.46 326.56 | 8.63 51.84 | .21 253.47 | .49 51.47 | 1.42 76.42 | 2.35 52.77 | 1.31 3.41 | AMP PHASE |
| 260 | 28.23 | 38.45 | 636 | 22.82 138.47 | 18.82 333.73 | 9.76 52.84 | .88 298.54 | 1.55 48.88 | 2.88 98.48 | 3.94 85.14 | 2.29 21.87 | AMP PHASE |
| 261 | 29.57 | 44.58 | 637 | 22.98 127.52 | 24.32 333.18 | 18.26 61.42 | .23 291.58 | 2.34 78.55 | 3.92 148.54 | 1.53 138.62 | 2.36 25.75 | AMP PHASE |
| 262 | 17.91 | 36.87 | 641 | 18.14 133.21 | 28.56 334.85 | 9.24 63.83 | 1.33 335.88 | 1.81 281.54 | .55 147.74 | 1.59 5.56 | .46 228.33 | AMP PHASE |
| 263 | 28.49 | 37.57 | 648 | 18.87 135.79 | 28.38 339.25 | 9.43 66.44 | 1.32 338.43 | .93 388.86 | .51 149.88 | 1.83 23.68 | .46 242.83 | AMP PHASE |
| 264 | 22.99 | 37.28 | 648 | 19.61 134.89 | 19.66 337.88 | 9.88 64.87 | 1.15 326.35 | 1.87 385.26 | .38 148.25 | 1.75 27.58 | .44 257.85 | AMP PHASE |
| 265 | 25.79 | 36.93 | 648 | 28.21 131.43 | 18.78 331.51 | 18.48 55.84 | 1.18 297.81 | 1.17 387.64 | .28 117.74 | 1.53 13.68 | .71 288.77 | AMP PHASE |
| 266 | 28.58 | 37.61 | 648 | 28.98 129.38 | 17.95 332.43 | 18.54 62.35 | .87 253.92 | 1.38 316.19 | .48 84.93 | 1.14 8.61 | .22 276.95 | AMP PHASE |
| 267 | 31.18 | 37.31 | 648 | 21.24 124.98 | 18.39 327.55 | 18.33 47.76 | 1.65 264.58 | 2.19 331.61 | 1.47 66.28 | 2.18 5.78 | 1.13 388.93 | AMP PHASE |
| 268 | 32.11 | 39.79 | 648 | 21.15 126.58 | 28.16 331.84 | 11.19 58.27 | 1.32 291.84 | 2.55 9.34 | 2.86 111.55 | 1.48 72.29 | .99 355.54 | AMP PHASE |
| 269 | 21.13 | 31.22 | 648 | 15.74 133.64 | 17.49 338.85 | 8.94 62.57 | 1.16 32.12 | .73 286.85 | .85 163.56 | .23 6.88 | .17 185.47 | AMP PHASE |
| 270 | 23.68 | 31.25 | 648 | 16.18 133.92 | 17.88 338.52 | 9.43 61.89 | 1.19 328.19 | .56 291.82 | .59 159.25 | .75 15.23 | .31 198.42 | AMP PHASE |
| 271 | 26.26 | 31.43 | 648 | 16.76 133.51 | 17.85 335.96 | 9.97 55.83 | 1.86 388.39 | .88 282.98 | .44 142.11 | .77 351.48 | .17 317.28 | AMP PHASE |
| 272 | 28.94 | 32.31 | 648 | 17.63 132.81 | 17.28 334.81 | 18.64 51.59 | .89 278.52 | 1.86 285.34 | .38 169.12 | 1.85 334.28 | .33 349.59 | AMP PHASE |
| 273 | 31.89 | 33.11 | 648 | 18.44 128.65 | 17.81 327.29 | 18.63 44.86 | 1.75 217.55 | 1.27 279.57 | 1.19 196.14 | 1.89 312.47 | .43 349.52 | AMP PHASE |
| 274 | 34.81 | 33.35 | 639 | 18.76 127.93 | 17.84 329.93 | 18.17 44.16 | 1.46 238.76 | 1.94 384.83 | .74 27.88 | 1.55 354.35 | .86 358.77 | AMP PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | 47.83 | 54.73 | 636 | 14.81 | 7.23 | 3.66 | 8.88 | 13.42 | 18.82 | 4.88 | .58 AMP |
| 256 | 45.89 | 54.63 | 636 | 284.17 | 154.19 | 136.36 | 147.87 | 287.85 | 284.44 | 132.58 | 54.13 PHASE |
| 257 | 43.38 | 62.89 | 636 | 19.96 | 11.88 | 8.83 | 7.65 | 17.24 | 12.57 | 5.88 | .76 AMP |
| 258 | 41.54 | 78.65 | 636 | 298.27 | 165.66 | 331.67 | 132.13 | 266.71 | 219.49 | 121.67 | 115.45 PHASE |
| 259 | 39.85 | 86.22 | 636 | 27.83 | 14.73 | 9.93 | 8.83 | 19.69 | 8.93 | 4.45 | .75 AMP |
| 260 | 37.33 | 187.96 | 636 | 314.39 | 171.85 | 314.18 | 183.59 | 276.81 | 239.77 | 124.46 | 48.69 PHASE |
| 261 | 39.15 | 158.93 | 637 | 38.43 | 16.71 | 13.51 | 11.28 | 17.55 | 5.13 | 4.86 | 2.35 AMP |
| 262 | 45.13 | 46.94 | 641 | 326.47 | 173.67 | 388.28 | 86.76 | 293.28 | 229.37 | 158.72 | 48.72 PHASE |
| 263 | 44.98 | 55.87 | 648 | 49.55 | 28.93 | 28.34 | 15.73 | 18.95 | 9.84 | 3.95 | 3.82 AMP |
| 264 | 44.84 | 65.74 | 648 | 337.73 | 179.23 | 383.83 | 73.78 | 328.62 | 33.36 | 253.56 | 48.16 PHASE |
| 265 | 42.81 | 74.71 | 648 | 59.13 | 29.46 | 32.27 | 22.36 | 4.44 | 26.24 | 3.34 | 4.22 AMP |
| 266 | 39.92 | 89.11 | 648 | 352.52 | 192.72 | 311.39 | 78.66 | 65.25 | 92.99 | 274.67 | 34.26 PHASE |
| 267 | 39.28 | 189.91 | 648 | 64.58 | 45.23 | 48.55 | 22.92 | 26.56 | 78.83 | 13.69 | 9.38 AMP |
| 268 | 41.89 | 158.78 | 648 | 8.67 | 199.75 | 316.46 | 185.11 | 189.78 | 172.26 | 211.79 | 34.91 PHASE |
| 269 | 43.84 | 41.82 | 648 | 9.38 | 8.59 | 4.59 | 2.41 | 11.46 | 16.69 | .48 | 1.89 AMP |
| 270 | 44.57 | 56.11 | 648 | 286.91 | 162.67 | 8.34 | 169.29 | 282.15 | 155.68 | 248.83 | 66.73 PHASE |
| 271 | 44.99 | 65.23 | 648 | 15.27 | 12.87 | 9.33 | 2.91 | 9.56 | 21.99 | .48 | 1.85 AMP |
| 272 | 45.87 | 79.46 | 648 | 387.48 | 176.22 | .45 | 173.31 | 264.58 | 138.53 | 98.18 | 89.81 PHASE |
| 273 | 44.62 | 95.24 | 648 | 23.89 | 16.88 | 12.49 | 4.89 | 12.46 | 25.83 | 3.45 | 1.76 AMP |
| 274 | 43.91 | 113.28 | 639 | 324.39 | 188.72 | 347.88 | 111.87 | 261.46 | 154.49 | 74.92 | 184.58 PHASE |
| | | | | 335.62 | 19.78 | 16.16 | 8.52 | 15.14 | 25.13 | 2.82 | 1.28 AMP |
| | | | | 332.57 | 191.29 | 324.52 | 95.43 | 252.23 | 174.46 | 116.88 | 186.88 PHASE |
| | | | | 48.22 | 25.67 | 24.16 | 13.86 | 14.99 | 16.91 | 4.87 | .48 AMP |
| | | | | 344.36 | 196.78 | 315.38 | 88.62 | 249.53 | 281.61 | 213.51 | 341.53 PHASE |
| | | | | 59.64 | 32.85 | 33.68 | 16.82 | 11.49 | 5.92 | 4.68 | 1.35 AMP |
| | | | | 348.68 | 197.93 | 381.53 | 58.61 | 194.84 | 88.31 | 253.87 | 388.87 PHASE |
| | | | | 64.58 | 39.86 | 39.64 | 28.48 | 21.75 | 42.83 | 5.57 | 1.48 AMP |
| | | | | .89 | 283.11 | 318.53 | 77.87 | 172.69 | 115.37 | 126.78 | 292.91 PHASE |
| | | | | 5.63 | 9.88 | 6.42 | 2.29 | 9.16 | 18.19 | 3.28 | 2.36 AMP |
| | | | | 295.81 | 179.98 | 4.32 | 226.27 | 264.82 | 168.22 | 256.75 | 63.72 PHASE |
| | | | | 11.32 | 13.23 | 9.74 | 1.61 | 9.56 | 26.86 | 1.29 | 1.43 AMP |
| | | | | 319.23 | 184.78 | 355.34 | 241.86 | 232.93 | 137.12 | 387.56 | 79.39 PHASE |
| | | | | 28.74 | 16.78 | 18.86 | 2.37 | 9.52 | 32.83 | 4.88 | 1.58 AMP |
| | | | | 334.81 | 193.16 | 336.32 | 68.92 | 216.96 | 154.61 | 57.43 | 182.15 PHASE |
| | | | | 32.56 | 19.83 | 14.28 | 6.18 | 12.47 | 34.78 | 3.48 | 1.87 AMP |
| | | | | 341.35 | 199.29 | 317.89 | 64.82 | 282.82 | 178.34 | 79.63 | 183.64 PHASE |
| | | | | 47.35 | 23.68 | 19.89 | 9.47 | 16.54 | 29.34 | 1.61 | 1.18 AMP |
| | | | | 343.38 | 288.58 | 297.13 | 53.13 | 179.53 | 182.48 | 124.83 | 123.28 PHASE |
| | | | | 63.62 | 31.81 | 31.38 | 12.34 | 18.81 | 3.97 | 3.63 | 1.48 AMP |
| | | | | 352.38 | 288.43 | 293.58 | 37.18 | 156.16 | 289.25 | 279.84 | 249.57 PHASE |

TABLE VI.- Continued

(d) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | .64 | 4.65 | 636 | 2.82 | 1.94 | 1.16 | .52 | .19 | .86 | .19 | .83 AMP |
| | | | | 65.94 | 286.18 | 141.76 | 18.71 | 289.65 | 219.89 | 59.93 | 167.48 PHASE |
| 256 | .19 | 4.73 | 636 | 2.52 | 2.82 | 1.49 | .49 | .37 | .14 | .14 | .87 AMP |
| | | | | 63.76 | 298.16 | 142.67 | 33.61 | 254.81 | 182.82 | 9.76 | 138.46 PHASE |
| 257 | -.33 | 4.83 | 636 | 3.88 | 1.97 | .93 | .43 | .88 | .27 | .18 | .13 AMP |
| | | | | 68.23 | 294.18 | 155.81 | 29.14 | 248.23 | 178.15 | 29.26 | 162.89 PHASE |
| 258 | -.95 | 5.62 | 636 | 3.73 | 1.87 | 1.22 | .66 | .15 | .35 | .81 | .14 AMP |
| | | | | 54.74 | 297.66 | 178.81 | 358.16 | 186.26 | 148.25 | 328.83 | 179.87 PHASE |
| 259 | -1.77 | 6.51 | 636 | 4.89 | 1.48 | 1.81 | .99 | .35 | .42 | .88 | .19 AMP |
| | | | | 49.54 | 386.17 | 199.88 | 345.99 | 116.35 | 158.36 | 385.96 | 181.54 PHASE |
| 260 | -3.69 | 11.11 | 636 | 7.61 | .88 | 2.27 | 1.86 | 2.81 | 1.36 | .84 | .37 AMP |
| | | | | 39.93 | 15.97 | 281.18 | 74.28 | 188.61 | 243.28 | 318.88 | 331.82 PHASE |
| 261 | -6.95 | 18.89 | 637 | 11.66 | .52 | 3.72 | .88 | 4.29 | 3.87 | 1.98 | 1.89 AMP |
| | | | | 33.94 | 317.83 | 238.78 | 272.74 | 247.21 | 318.18 | 6.79 | 356.98 PHASE |
| 262 | -.47 | 3.99 | 641 | 2.83 | 1.81 | .88 | .24 | .42 | .89 | .28 | .85 AMP |
| | | | | 74.75 | 385.17 | 145.65 | 3.66 | 238.27 | 92.69 | 25.37 | 53.87 PHASE |
| 263 | -.87 | 4.92 | 648 | 2.59 | 2.28 | 1.85 | .22 | .49 | .89 | .33 | .82 AMP |
| | | | | 78.56 | 389.84 | 168.79 | 52.39 | 261.77 | 197.81 | 29.49 | 112.98 PHASE |
| 264 | -1.29 | 5.72 | 648 | 3.17 | 2.46 | 1.28 | .35 | .26 | .22 | .29 | .84 AMP |
| | | | | 66.34 | 318.41 | 188.28 | 18.22 | 336.86 | 145.85 | 39.77 | 258.31 PHASE |
| 265 | -1.81 | 6.91 | 648 | 3.96 | 2.63 | 1.61 | .74 | .37 | .48 | .22 | .84 AMP |
| | | | | 59.83 | 387.26 | 191.29 | 357.75 | 68.32 | 134.53 | 358.14 | 347.75 PHASE |
| 266 | -2.71 | 8.81 | 648 | 5.38 | 2.12 | 2.35 | 1.28 | .78 | .51 | .32 | .15 AMP |
| | | | | 53.67 | 389.81 | 213.95 | 357.68 | 86.28 | 152.88 | 348.15 | 69.22 PHASE |
| 267 | -4.18 | 11.79 | 648 | 7.54 | 1.31 | 2.28 | 1.72 | 1.87 | 1.82 | .69 | .18 AMP |
| | | | | 42.46 | 323.18 | 285.83 | 51.71 | 134.12 | 182.14 | 278.88 | 297.23 PHASE |
| 268 | -5.72 | 15.87 | 648 | 9.88 | .84 | 3.83 | 1.48 | 3.13 | 2.21 | 1.71 | .68 AMP |
| | | | | 37.92 | 339.98 | 215.88 | 182.96 | 198.11 | 252.42 | 312.22 | 325.83 PHASE |
| 269 | -.69 | 4.36 | 648 | 2.12 | 1.99 | .93 | .32 | .41 | .83 | .16 | .85 AMP |
| | | | | 78.12 | 313.83 | 173.32 | 49.98 | 244.37 | 138.84 | 15.97 | 76.97 PHASE |
| 270 | -1.88 | 5.34 | 648 | 2.64 | 2.29 | 1.19 | .39 | .58 | .85 | .18 | .82 AMP |
| | | | | 65.16 | 311.13 | 188.36 | 67.61 | 261.89 | 113.14 | 8.78 | 56.88 PHASE |
| 271 | -1.52 | 6.28 | 648 | 3.26 | 2.47 | 1.47 | .36 | .27 | .28 | .13 | .85 AMP |
| | | | | 68.62 | 388.22 | 186.27 | 39.91 | 289.22 | 92.55 | 3.15 | 315.59 PHASE |
| 272 | -1.97 | 7.85 | 648 | 3.96 | 2.69 | 1.75 | .68 | .19 | .43 | .86 | .12 AMP |
| | | | | 57.22 | 386.86 | 194.88 | 5.25 | 19.86 | 188.64 | 341.71 | 333.46 PHASE |
| 273 | -2.46 | 8.16 | 648 | 4.87 | 2.77 | 2.11 | 1.89 | .66 | .66 | .13 | .28 AMP |
| | | | | 51.73 | 388.85 | 281.75 | 358.24 | 62.91 | 182.95 | 258.48 | 344.75 PHASE |
| 274 | -3.68 | 18.66 | 639 | 6.93 | 2.88 | 2.89 | 2.12 | 1.97 | 1.18 | .61 | .21 AMP |
| | | | | 44.24 | 311.83 | 212.97 | 38.71 | 111.55 | 151.15 | 241.43 | 293.27 PHASE |

TABLE VI.- Continued

(d) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------|-------|
| RUN NO 36 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 255 | -2.13 | 37.67 | 636 | 19.75 | 17.43 | 6.49 | 4.84 | 4.46 | .38 | 2.98 | .29 | AMP |
| 256 | .73 | 37.49 | 636 | 148.48 | 333.57 | 38.62 | 218.79 | 238.85 | 45.35 | 224.74 | 131.23 | PHASE |
| 257 | 4.85 | 36.21 | 636 | 28.31 | 16.75 | 5.87 | 3.35 | 4.95 | .25 | 2.66 | .65 | AMP |
| 258 | 6.99 | 35.51 | 636 | 139.58 | 331.55 | 29.43 | 215.72 | 219.31 | 72.73 | 228.18 | 283.65 | PHASE |
| 259 | 9.95 | 36.18 | 636 | 28.27 | 15.18 | 5.26 | 2.41 | 4.64 | .18 | 2.18 | 1.38 | AMP |
| 260 | 11.95 | 38.28 | 636 | 139.88 | 326.15 | 32.27 | 231.85 | 215.48 | 92.52 | 211.48 | 195.88 | PHASE |
| 261 | 12.15 | 47.51 | 637 | 21.88 | 14.57 | 5.82 | 2.26 | 3.77 | .39 | 1.52 | 1.47 | AMP |
| 262 | -4.41 | 36.55 | 641 | 138.58 | 324.82 | 37.82 | 243.45 | 218.41 | 76.18 | 198.87 | 185.57 | PHASE |
| 263 | 2.21 | 37.93 | 648 | 21.68 | 14.48 | 5.13 | 1.83 | 2.63 | .66 | 2.19 | 2.42 | AMP |
| 264 | 5.18 | 38.26 | 648 | 138.51 | 323.16 | 48.83 | 278.87 | 189.88 | 72.11 | 216.26 | 188.39 | PHASE |
| 265 | 8.28 | 39.31 | 648 | 22.98 | 15.75 | 5.64 | .75 | 3.98 | .73 | 4.87 | 3.78 | AMP |
| 266 | 11.52 | 39.32 | 648 | 139.39 | 338.18 | 44.13 | 385.25 | 127.55 | 113.11 | 256.13 | 284.82 | PHASE |
| 267 | 14.11 | 39.84 | 648 | 22.61 | 22.57 | 7.19 | .94 | 8.92 | .26 | 2.25 | 3.64 | AMP |
| 268 | 14.57 | 42.62 | 648 | 138.97 | 327.92 | 38.33 | 122.89 | 144.81 | 49.27 | 328.44 | 288.53 | PHASE |
| 269 | 2.42 | 32.63 | 648 | 19.71 | 18.18 | 6.81 | 3.46 | 2.84 | .63 | 1.92 | .58 | AMP |
| 270 | 5.86 | 33.98 | 648 | 136.76 | 335.88 | 33.93 | 184.72 | 222.85 | 33.61 | 183.88 | 69.59 | PHASE |
| 271 | 7.91 | 34.13 | 648 | 28.36 | 18.85 | 6.85 | 2.93 | 3.58 | .69 | 2.84 | .41 | AMP |
| 272 | 18.96 | 35.87 | 648 | 148.62 | 338.75 | 42.51 | 197.61 | 238.89 | 66.61 | 195.21 | 94.22 | PHASE |
| 273 | 14.23 | 37.32 | 648 | 21.18 | 17.45 | 6.37 | 2.77 | 4.28 | .53 | 1.89 | .43 | AMP |
| 274 | 17.88 | 36.55 | 639 | 148.99 | 337.71 | 45.82 | 212.25 | 247.53 | 63.25 | 195.14 | 117.18 | PHASE |
| | | | | 21.73 | 17.88 | 6.83 | 2.18 | 4.27 | .63 | 1.52 | .59 | AMP |
| | | | | 139.16 | 338.66 | 43.38 | 227.87 | 245.96 | 54.86 | 172.31 | 141.88 | PHASE |
| | | | | 22.78 | 16.58 | 7.12 | 1.53 | 3.41 | .92 | 1.13 | .59 | AMP |
| | | | | 138.83 | 329.75 | 53.91 | 265.12 | 254.75 | 56.88 | 165.87 | 178.28 | PHASE |
| | | | | 23.83 | 16.78 | 6.99 | .25 | 1.87 | 1.21 | 2.18 | 1.98 | AMP |
| | | | | 134.65 | 324.58 | 43.41 | 266.81 | 185.69 | 57.34 | 172.27 | 148.87 | PHASE |
| | | | | 23.75 | 18.59 | 7.81 | .26 | 3.25 | 1.17 | 1.16 | 2.81 | AMP |
| | | | | 137.34 | 327.44 | 49.44 | 181.54 | 151.44 | 57.48 | 258.83 | 166.37 | PHASE |
| | | | | 17.67 | 15.98 | 5.59 | 3.81 | 3.59 | .76 | .89 | .27 | AMP |
| | | | | 137.46 | 338.21 | 36.41 | 176.73 | 212.45 | 45.67 | 188.67 | 355.24 | PHASE |
| | | | | 18.85 | 15.74 | 6.11 | 2.77 | 4.88 | .59 | .88 | .21 | AMP |
| | | | | 138.81 | 337.78 | 37.18 | 173.82 | 213.87 | 59.19 | 188.11 | 357.38 | PHASE |
| | | | | 18.63 | 15.41 | 6.81 | 2.26 | 4.27 | .42 | .91 | .26 | AMP |
| | | | | 139.38 | 334.54 | 34.88 | 173.99 | 214.97 | 61.59 | 162.54 | 178.25 | PHASE |
| | | | | 19.53 | 15.73 | 7.54 | 1.69 | 4.84 | .66 | 1.22 | .56 | AMP |
| | | | | 139.31 | 331.35 | 34.29 | 176.68 | 215.63 | 59.67 | 146.43 | 173.87 | PHASE |
| | | | | 28.61 | 15.82 | 8.89 | .98 | 3.31 | 1.88 | 1.28 | .88 | AMP |
| | | | | 136.24 | 323.83 | 33.28 | 163.11 | 198.24 | 45.81 | 122.83 | 166.91 | PHASE |
| | | | | 28.98 | 16.33 | 8.61 | 1.43 | 1.21 | 1.44 | 1.61 | 1.31 | AMP |
| | | | | 136.58 | 326.56 | 37.73 | 78.95 | 131.87 | 65.98 | 163.17 | 175.18 | PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 36 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 255 | 61.64 | 33.13 | 636 | 8.95 | 18.68 | 6.38 | 4.71 | 7.76 | 7.18 | 2.74 | .52 | AMP |
| 256 | 62.74 | 29.76 | 636 | 151.29 | 328.81 | 35.87 | 181.27 | 259.51 | 196.17 | 173.78 | 123.11 | PHASE |
| 257 | 65.87 | 29.98 | 636 | 7.42 | 9.13 | 6.59 | 3.74 | 9.78 | 4.67 | 2.92 | 1.18 | AMP |
| 258 | 67.35 | 24.65 | 636 | 153.72 | 321.87 | 19.92 | 178.53 | 243.81 | 214.92 | 149.92 | 164.99 | PHASE |
| 259 | 78.18 | 26.16 | 636 | 4.61 | 7.71 | 6.14 | 2.55 | 9.69 | 3.37 | 2.68 | 1.38 | AMP |
| 260 | 72.33 | 47.35 | 636 | 154.32 | 318.67 | 11.91 | 135.38 | 258.58 | 239.89 | 147.63 | 168.58 | PHASE |
| 261 | 73.36 | 71.78 | 637 | 17.66 | 7.17 | 6.41 | 2.74 | 7.48 | 1.57 | 2.97 | 1.29 | AMP |
| 262 | 63.13 | 31.48 | 641 | 148.46 | 385.12 | 3.74 | 182.87 | 261.42 | 231.63 | 155.68 | 138.85 | PHASE |
| 263 | 64.18 | 32.58 | 648 | 2.34 | 6.62 | 6.99 | 4.31 | 2.63 | 4.41 | 2.88 | 1.67 | AMP |
| 264 | 65.95 | 35.71 | 648 | 26.32 | 295.94 | 358.24 | 68.91 | 287.18 | 32.16 | 214.73 | 149.47 | PHASE |
| 265 | 68.68 | 33.85 | 648 | 6.28 | 6.71 | 11.19 | 7.85 | 5.32 | 11.48 | 4.19 | 1.72 | AMP |
| 266 | 71.38 | 37.98 | 648 | 36.81 | 279.41 | 337.58 | 68.58 | 188.94 | 88.45 | 247.88 | 288.55 | PHASE |
| 267 | 73.81 | 38.58 | 648 | 13.48 | 18.74 | 14.74 | 8.38 | 16.48 | 28.83 | 5.58 | 1.52 | AMP |
| 268 | 75.32 | 61.41 | 648 | 55.88 | 254.75 | 338.19 | 186.55 | 178.13 | 167.28 | 222.85 | 21.34 | PHASE |
| 269 | 64.87 | 28.82 | 648 | 9.27 | 18.61 | 6.75 | 3.44 | 5.94 | 6.34 | 1.86 | 1.39 | AMP |
| 270 | 65.72 | 32.34 | 648 | 141.83 | 328.86 | 35.97 | 187.71 | 258.53 | 146.26 | 183.51 | 61.28 | PHASE |
| 271 | 67.65 | 36.18 | 648 | 7.85 | 9.92 | 7.96 | 3.36 | 6.28 | 8.82 | 1.89 | .96 | AMP |
| 272 | 78.28 | 48.74 | 648 | 145.81 | 328.39 | 33.63 | 191.26 | 248.48 | 126.93 | 175.13 | 87.32 | PHASE |
| 273 | 73.29 | 39.79 | 648 | 5.72 | 9.35 | 8.75 | 2.54 | 7.78 | 18.11 | 1.66 | 1.63 | AMP |
| 274 | 76.48 | 37.11 | 639 | 148.88 | 318.61 | 26.24 | 178.23 | 248.84 | 144.38 | 127.16 | 98.28 | PHASE |
| | | | | 3.18 | 9.38 | 9.28 | 2.45 | 9.23 | 9.66 | 2.82 | 1.78 | AMP |
| | | | | 119.95 | 384.14 | 18.94 | 127.79 | 248.86 | 166.67 | 133.83 | 184.73 | PHASE |
| | | | | 3.56 | 9.17 | 9.78 | 2.65 | 8.58 | 16.67 | 2.33 | 1.16 | AMP |
| | | | | 45.37 | 294.31 | 1.45 | 98.75 | 239.65 | 195.16 | 192.95 | 114.89 | PHASE |
| | | | | 6.38 | 18.88 | 12.55 | 6.26 | 5.43 | 2.86 | 2.53 | 1.55 | AMP |
| | | | | 31.97 | 274.68 | 333.25 | 58.91 | 168.38 | 98.88 | 215.65 | 138.85 | PHASE |
| | | | | 18.37 | 18.53 | 14.55 | 8.26 | 12.77 | 16.84 | 1.65 | 1.65 | AMP |
| | | | | 44.41 | 263.74 | 338.84 | 77.39 | 158.92 | 112.11 | 143.81 | 197.23 | PHASE |
| | | | | 8.43 | 8.67 | 6.95 | 2.88 | 5.71 | 7.11 | 1.91 | 1.38 | AMP |
| | | | | 137.68 | 326.88 | 32.99 | 197.11 | 237.51 | 158.32 | 228.82 | 45.38 | PHASE |
| | | | | 6.85 | 8.82 | 8.18 | 2.49 | 6.58 | 18.82 | 1.74 | .91 | AMP |
| | | | | 137.84 | 321.25 | 26.17 | 191.99 | 217.69 | 127.42 | 197.19 | 55.87 | PHASE |
| | | | | 4.69 | 7.86 | 8.73 | 1.78 | 7.88 | 13.18 | 1.75 | 1.88 | AMP |
| | | | | 125.86 | 389.82 | 17.34 | 148.61 | 287.72 | 146.82 | 88.23 | 93.41 | PHASE |
| | | | | 2.97 | 9.66 | 9.34 | 2.18 | 7.97 | 14.82 | 1.91 | 1.43 | AMP |
| | | | | 89.41 | 388.62 | 6.42 | 181.42 | 199.56 | 178.38 | 181.62 | 188.26 | PHASE |
| | | | | 3.99 | 9.68 | 9.86 | 3.46 | 8.99 | 12.11 | 1.32 | 1.16 | AMP |
| | | | | 26.94 | 288.55 | 349.83 | 68.82 | 175.85 | 173.88 | 125.11 | 183.11 | PHASE |
| | | | | 7.85 | 11.87 | 12.68 | 6.48 | 8.61 | .58 | 1.98 | 1.22 | AMP |
| | | | | 18.64 | 274.57 | 338.82 | 36.28 | 137.21 | 198.86 | 231.91 | 183.14 | PHASE |

TABLE VI.- Continued

(d) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | -2.81 | 3.49 | 636 | 1.93 | .46 | .61 | .46 | .36 | .28 | .39 | .22 AMP |
| 256 | -3.88 | 3.45 | 636 | 138.12 | 282.82 | 283.59 | 74.85 | 332.65 | 285.19 | 58.78 | 344.78 PHASE |
| 257 | -3.21 | 3.68 | 636 | 2.85 | .55 | .55 | .43 | .31 | .24 | .33 | .38 AMP |
| 258 | -3.35 | 3.59 | 636 | 115.31 | 287.22 | 287.72 | 75.94 | 319.36 | 184.99 | 28.97 | 352.49 PHASE |
| 259 | -3.52 | 4.26 | 636 | 2.24 | .67 | .61 | .36 | .28 | .26 | .33 | .24 AMP |
| 260 | -4.13 | 7.66 | 636 | 182.48 | 298.29 | 288.85 | 86.41 | 348.74 | 168.79 | 24.77 | 358.69 PHASE |
| 261 | -5.38 | 18.28 | 637 | 2.56 | .84 | .72 | .17 | .22 | .21 | .27 | .16 AMP |
| 262 | -3.29 | 3.79 | 641 | 98.78 | 291.19 | 285.98 | 87.53 | 358.38 | 149.36 | 25.18 | 358.68 PHASE |
| 263 | -3.46 | 3.99 | 648 | 3.84 | .93 | .93 | .11 | .87 | .18 | .27 | .16 AMP |
| 264 | -3.62 | 4.83 | 648 | 83.28 | 381.79 | 284.82 | 191.47 | 328.83 | 148.37 | 24.81 | 33.61 PHASE |
| 265 | -3.79 | 4.38 | 648 | 3.58 | 1.36 | 1.48 | .86 | .86 | .71 | .66 | .42 AMP |
| 266 | -3.93 | 4.96 | 648 | 65.85 | 354.76 | 165.53 | 159.33 | 197.96 | 244.98 | 18.89 | 98.58 PHASE |
| 267 | -4.29 | 6.82 | 648 | 4.49 | 2.42 | 2.85 | 1.14 | 1.68 | 2.81 | 1.57 | .69 AMP |
| 268 | -4.93 | 9.78 | 648 | 48.41 | 358.82 | 196.85 | 264.96 | 271.58 | 321.16 | 58.85 | 285.91 PHASE |
| 269 | -3.45 | 3.75 | 648 | 2.26 | .54 | .63 | .42 | .25 | .11 | .25 | .83 AMP |
| 270 | -3.68 | 3.96 | 648 | 128.71 | 314.54 | 286.82 | 78.94 | 287.45 | 186.75 | 7.97 | 382.76 PHASE |
| 271 | -3.77 | 4.84 | 648 | 2.34 | .75 | .68 | .44 | .28 | .15 | .34 | .82 AMP |
| 272 | -3.94 | 4.58 | 648 | 116.38 | 318.86 | 212.78 | 94.73 | 384.96 | 213.52 | 5.64 | 188.33 PHASE |
| 273 | -4.84 | 5.86 | 648 | 2.56 | .95 | .88 | .35 | .47 | .17 | .33 | .89 AMP |
| 274 | -4.29 | 5.81 | 639 | 184.85 | 386.42 | 212.26 | 98.99 | 347.55 | 166.88 | 17.77 | 247.98 PHASE |
| 275 | -3.45 | 3.75 | 648 | 2.92 | 1.14 | 1.85 | .29 | .54 | .25 | .27 | .89 AMP |
| 276 | -3.68 | 3.96 | 648 | 91.76 | 381.68 | 284.61 | 78.28 | 7.58 | 133.86 | 2.86 | 298.97 PHASE |
| 277 | -3.77 | 4.84 | 648 | 3.42 | 1.26 | 1.25 | .15 | .65 | .35 | .38 | .19 AMP |
| 278 | -3.94 | 4.58 | 648 | 84.89 | 388.11 | 288.81 | 25.87 | 34.33 | 142.58 | 351.49 | 38.28 PHASE |
| 279 | -3.45 | 3.75 | 648 | 3.89 | 1.43 | 1.41 | .65 | .68 | .59 | .61 | .38 AMP |
| 280 | -3.68 | 3.96 | 648 | 69.51 | 335.15 | 168.14 | 96.14 | 118.85 | 191.21 | 325.82 | 44.88 PHASE |
| 281 | -3.77 | 4.84 | 648 | 4.86 | 2.88 | 1.91 | .61 | .93 | 1.34 | 1.88 | .56 AMP |
| 282 | -3.94 | 4.58 | 648 | 57.89 | 349.84 | 176.74 | 162.56 | 281.27 | 259.77 | 358.84 | 96.88 PHASE |
| 283 | -3.45 | 3.75 | 648 | 2.34 | .73 | .73 | .37 | .22 | .18 | .22 | .84 AMP |
| 284 | -3.68 | 3.96 | 648 | 126.88 | 329.77 | 215.81 | 81.92 | 284.17 | 194.86 | 8.19 | 278.73 PHASE |
| 285 | -3.77 | 4.84 | 648 | 2.48 | .91 | .87 | .48 | .29 | .85 | .22 | .87 AMP |
| 286 | -3.94 | 4.58 | 648 | 113.42 | 316.62 | 212.58 | 87.73 | 292.89 | 185.55 | 351.75 | 235.13 PHASE |
| 287 | -3.77 | 4.84 | 648 | 2.63 | 1.85 | 1.82 | .34 | .37 | .86 | .21 | .17 AMP |
| 288 | -3.94 | 4.58 | 648 | 188.22 | 387.43 | 286.98 | 88.51 | 324.76 | 83.86 | 358.66 | 254.18 PHASE |
| 289 | -3.77 | 4.84 | 648 | 3.82 | 1.22 | 1.16 | .23 | .47 | .21 | .15 | .24 AMP |
| 290 | -3.94 | 4.58 | 648 | 89.88 | 383.46 | 283.85 | 75.41 | 349.91 | 69.65 | 357.88 | 274.58 PHASE |
| 291 | -3.77 | 4.84 | 648 | 3.54 | 1.37 | 1.38 | .17 | .64 | .39 | .87 | .27 AMP |
| 292 | -3.94 | 4.58 | 648 | 78.66 | 297.87 | 198.67 | 7.52 | 6.98 | 67.91 | 298.42 | 286.66 PHASE |
| 293 | -3.77 | 4.84 | 648 | 4.11 | 1.56 | 1.54 | .79 | .48 | .38 | .38 | .38 AMP |
| 294 | -4.29 | 5.81 | 639 | 66.97 | 338.11 | 171.78 | 71.99 | 81.84 | 147.88 | 278.74 | 8.98 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 255 | -3.84 | 9.76 | 636 | 3.18 | 3.88 | 1.56 | 1.84 | .43 | .56 | .74 | .37 AMP |
| 256 | -3.18 | 9.18 | 636 | 247.55 | 181.52 | 291.86 | 182.12 | 238.68 | 122.92 | 24.38 | 337.38 PHASE |
| 257 | -2.26 | 9.46 | 636 | 4.27 | 3.65 | 1.88 | .97 | .19 | .56 | .66 | .54 AMP |
| 258 | -1.21 | 10.66 | 636 | 246.66 | 183.35 | 286.56 | 191.83 | 174.82 | 93.49 | 14.88 | 344.15 PHASE |
| 259 | -.82 | 14.16 | 636 | 5.46 | 3.81 | .41 | 1.12 | .13 | .54 | .82 | .43 AMP |
| 260 | 2.24 | 21.35 | 636 | 238.67 | 182.77 | 323.28 | 193.89 | 216.85 | 66.86 | 16.21 | 341.92 PHASE |
| 261 | 5.45 | 33.33 | 637 | 232.98 | 97.83 | 42.95 | 192.11 | 161.63 | 45.45 | 7.74 | 345.67 PHASE |
| 262 | -2.22 | 7.25 | 641 | 7.17 | 2.47 | .93 | 1.67 | .12 | .52 | .76 | .47 AMP |
| 263 | -1.73 | 8.47 | 648 | 9.63 | 1.79 | 2.18 | 2.27 | .12 | .64 | .84 | .62 AMP |
| 264 | -1.17 | 9.26 | 648 | 229.11 | 84.11 | 59.88 | 199.85 | 126.39 | 43.41 | 23.78 | 11.99 PHASE |
| 265 | -.44 | 11.58 | 648 | 13.96 | 1.18 | 2.64 | 3.18 | 2.73 | 2.31 | 1.82 | .95 AMP |
| 266 | .78 | 13.58 | 648 | 225.42 | 37.78 | 73.34 | 248.85 | 26.87 | 64.87 | 82.72 | 111.83 PHASE |
| 267 | 2.28 | 19.89 | 648 | 19.72 | 3.24 | 6.87 | 1.49 | 7.87 | 4.69 | 2.59 | 2.31 AMP |
| 268 | 3.72 | 26.68 | 648 | 223.79 | 49.43 | 84.98 | 273.64 | 73.23 | 121.14 | 149.66 | 185.18 PHASE |
| 269 | -1.13 | 7.48 | 648 | 3.27 | 3.47 | 1.12 | .77 | .21 | .18 | .39 | .14 AMP |
| 270 | -1.78 | 8.29 | 648 | 261.67 | 113.82 | 279.62 | 168.35 | 65.64 | 76.85 | 327.81 | 15.88 PHASE |
| 271 | -.31 | 8.85 | 648 | 4.11 | 3.92 | 1.81 | .71 | .38 | .23 | .47 | .18 AMP |
| 272 | -.83 | 18.67 | 648 | 268.69 | 121.33 | 388.43 | 188.24 | 75.42 | 99.82 | 332.89 | 24.49 PHASE |
| 273 | .48 | 13.58 | 648 | 5.19 | 4.88 | .73 | 1.38 | .41 | .28 | .46 | .11 AMP |
| 274 | 1.62 | 19.41 | 639 | 254.71 | 121.91 | 357.24 | 186.62 | 278.62 | 46.26 | 348.53 | 217.61 PHASE |
| 275 | | | | 6.59 | 4.83 | 1.53 | 1.93 | .83 | .52 | .41 | .89 AMP |
| 276 | | | | 245.27 | 116.15 | 44.88 | 185.25 | 278.47 | 13.42 | 323.44 | 259.64 PHASE |
| 277 | | | | 9.37 | 3.82 | 3.51 | 2.71 | 1.22 | .74 | .45 | .24 AMP |
| 278 | | | | 236.97 | 188.95 | 59.46 | 198.83 | 295.68 | 38.14 | 386.88 | 8.45 PHASE |
| 279 | | | | 12.67 | 1.91 | 3.78 | 3.88 | 1.97 | 1.87 | 1.87 | .97 AMP |
| 280 | | | | 227.59 | 181.88 | 57.25 | 218.88 | 325.57 | 12.75 | 4.96 | 57.44 PHASE |
| 281 | | | | 15.87 | 1.77 | 4.28 | 3.32 | 5.16 | 3.47 | 1.97 | 2.16 AMP |
| 282 | | | | 225.84 | 76.77 | 68.26 | 258.41 | 12.28 | 61.76 | 95.89 | 114.58 PHASE |
| 283 | | | | 3.33 | 3.55 | .64 | .68 | .28 | .22 | .48 | .14 AMP |
| 284 | | | | 265.22 | 119.51 | 383.93 | 182.78 | 86.83 | 123.88 | 337.88 | 335.31 PHASE |
| 285 | | | | 4.11 | 3.89 | .68 | .74 | .48 | .13 | .31 | .13 AMP |
| 286 | | | | 268.18 | 122.24 | 339.65 | 196.13 | 98.93 | 118.85 | 328.83 | 328.17 PHASE |
| 287 | | | | 4.87 | 4.88 | 1.81 | 1.85 | .29 | .22 | .34 | .17 AMP |
| 288 | | | | 254.81 | 128.89 | 16.18 | 188.15 | 158.85 | 331.13 | 314.62 | 257.23 PHASE |
| 289 | | | | 5.95 | 4.38 | 1.79 | 1.63 | .56 | .63 | .48 | .22 AMP |
| 290 | | | | 249.67 | 119.88 | 39.77 | 172.18 | 223.81 | 329.88 | 388.83 | 273.62 PHASE |
| 291 | | | | 7.93 | 4.28 | 3.33 | 2.46 | 1.82 | 1.87 | .59 | .41 AMP |
| 292 | | | | 239.28 | 118.17 | 44.83 | 166.13 | 247.85 | 319.79 | 272.78 | 295.22 PHASE |
| 293 | | | | 11.59 | 3.81 | 4.36 | 3.78 | 2.88 | .84 | .84 | .84 AMP |
| 294 | | | | 229.99 | 116.71 | 56.38 | 199.62 | 298.66 | 341.28 | 333.98 | 19.11 PHASE |

TABLE VI.- Continued

(e) $\mu = 0.40$; $M_T = 0.62$

| PT. | A1 | B1 | THETA | CL/SIGMA | CU/SIGMA | CW/SIGMA |
|-----|-----|-----|-------|----------|----------|----------|
| 275 | 1.6 | 4.2 | 6.0 | .02274 | -.00122 | .00268 |
| 276 | 1.6 | 5.6 | 8.0 | .03755 | -.00361 | .00392 |
| 277 | 1.6 | 7.0 | 10.0 | .05208 | -.00612 | .00528 |
| 278 | 1.2 | 8.1 | 12.1 | .06720 | -.00843 | .00684 |
| 279 | 3.1 | 4.3 | 4.0 | .03211 | -.00023 | .00228 |
| 280 | 2.4 | 5.5 | 6.0 | .04667 | -.00155 | .00299 |
| 281 | 2.1 | 6.9 | 8.0 | .06094 | -.00296 | .00393 |
| 282 | 1.7 | 7.5 | 9.0 | .06828 | -.00354 | .00450 |
| 283 | 1.7 | 8.2 | 9.9 | .07330 | -.00425 | .00509 |
| 284 | 4.2 | 4.1 | -1.1 | .02358 | .00211 | .00120 |
| 285 | 3.5 | 5.0 | 2.0 | .04000 | .00216 | .00134 |
| 286 | 2.9 | 6.1 | 4.0 | .05529 | .00221 | .00169 |
| 287 | 2.5 | 6.8 | 5.0 | .06163 | .00203 | .00198 |
| 288 | 2.2 | 7.3 | 6.0 | .06862 | .00198 | .00234 |
| 289 | 1.6 | 8.1 | 7.0 | .07344 | .00145 | .00290 |

TABLE VI.- Continued

(e) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|-------|--------|--------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 47.82 | 38.84 | 585 | 11.75 | 15.25 | 6.41 | 5.82 | 2.83 | 1.37 | 1.44 | 1.21 AMP |
| | | | | 151.87 | 341.47 | 181.71 | 45.75 | 115.73 | 68.91 | 263.67 | 79.87 PHASE |
| 276 | 49.32 | 31.46 | 585 | 12.18 | 15.54 | 6.67 | 6.74 | 2.93 | 1.38 | 1.15 | 1.54 AMP |
| | | | | 144.16 | 331.96 | 84.88 | 26.26 | 188.26 | 55.77 | 251.48 | 46.68 PHASE |
| 277 | 51.68 | 33.14 | 585 | 12.71 | 15.76 | 6.88 | 7.22 | 2.73 | 1.33 | .95 | 1.73 AMP |
| | | | | 138.73 | 338.18 | 88.56 | 28.39 | 116.59 | 49.17 | 282.65 | 38.88 PHASE |
| 278 | 53.98 | 33.32 | 585 | 13.12 | 16.83 | 5.24 | 7.56 | 2.71 | 1.53 | 1.87 | 1.32 AMP |
| | | | | 138.41 | 326.72 | 77.31 | 26.99 | 136.42 | 46.88 | 389.19 | 26.23 PHASE |
| 279 | 46.88 | 37.46 | 585 | 14.64 | 18.29 | 7.98 | 6.89 | 4.81 | 1.98 | 1.79 | 2.21 AMP |
| | | | | 149.88 | 338.68 | 99.87 | 54.42 | 133.65 | 32.91 | 259.89 | 69.94 PHASE |
| 288 | 48.41 | 37.54 | 585 | 14.71 | 18.13 | 7.51 | 7.88 | 3.77 | 1.88 | .97 | 2.32 AMP |
| | | | | 145.25 | 335.98 | 93.42 | 51.24 | 134.75 | 43.89 | 281.94 | 63.21 PHASE |
| 281 | 58.61 | 37.41 | 585 | 14.98 | 18.15 | 7.16 | 7.83 | 3.28 | 2.21 | 1.82 | 2.86 AMP |
| | | | | 138.58 | 329.81 | 83.69 | 42.86 | 126.81 | 31.91 | 384.58 | 31.21 PHASE |
| 282 | 51.66 | 38.43 | 585 | 15.18 | 18.19 | 6.72 | 7.81 | 2.89 | 2.52 | 1.19 | 2.88 AMP |
| | | | | 133.32 | 322.92 | 78.89 | 34.77 | 119.73 | 26.75 | 385.55 | 18.79 PHASE |
| 283 | 52.55 | 38.88 | 585 | 15.35 | 18.17 | 6.14 | 7.84 | 3.88 | 2.54 | 1.45 | 1.72 AMP |
| | | | | 129.24 | 319.91 | 72.67 | 38.13 | 118.87 | 22.71 | 313.71 | 354.98 PHASE |
| 284 | 43.88 | 47.92 | 585 | 17.25 | 19.86 | 18.69 | 7.92 | 7.59 | 2.43 | 1.84 | 3.54 AMP |
| | | | | 144.84 | 327.26 | 82.73 | 25.87 | 134.69 | 35.43 | 238.33 | 39.12 PHASE |
| 285 | 45.32 | 44.17 | 585 | 17.32 | 19.41 | 9.69 | 7.37 | 6.31 | 2.84 | .81 | 3.18 AMP |
| | | | | 145.33 | 329.44 | 83.38 | 36.51 | 138.84 | 48.25 | 258.69 | 48.65 PHASE |
| 286 | 47.36 | 41.33 | 585 | 17.16 | 19.82 | 9.15 | 6.44 | 5.52 | 2.18 | .68 | 2.75 AMP |
| | | | | 142.33 | 327.18 | 81.11 | 35.12 | 125.51 | 51.87 | 218.75 | 48.43 PHASE |
| 287 | 48.29 | 39.78 | 585 | 17.15 | 18.83 | 8.66 | 6.38 | 5.74 | 2.87 | .45 | 2.48 AMP |
| | | | | 139.58 | 324.44 | 76.34 | 38.64 | 117.16 | 58.98 | 168.75 | 37.73 PHASE |
| 288 | 49.22 | 39.85 | 585 | 17.85 | 18.79 | 8.46 | 6.89 | 5.75 | 2.26 | .49 | 2.34 AMP |
| | | | | 148.58 | 338.49 | 85.49 | 43.85 | 137.69 | 73.68 | 164.59 | 57.85 PHASE |
| 289 | 58.11 | 48.84 | 585 | 17.17 | 19.22 | 8.18 | 5.48 | 6.82 | 2.77 | .82 | 2.78 AMP |
| | | | | 134.99 | 324.72 | 77.65 | 38.47 | 125.44 | 68.72 | 88.68 | 29.18 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 42.33 | 58.75 | 585 | 2.93 | 29.66 | 21.94 | 2.86 | 5.41 | 17.51 | 6.71 | 1.88 AMP |
| | | | | 298.64 | 191.22 | 388.29 | 125.68 | 316.37 | 313.58 | 282.18 | 151.35 PHASE |
| 276 | 44.84 | 84.75 | 585 | 16.52 | 41.33 | 27.34 | 5.12 | 7.44 | 16.86 | 6.68 | .86 AMP |
| | | | | 359.47 | 187.85 | 289.11 | 93.57 | 283.19 | 288.54 | 248.22 | 222.44 PHASE |
| 277 | 47.12 | 111.78 | 585 | 38.35 | 48.83 | 33.67 | 8.76 | 7.29 | 12.38 | 9.29 | 1.37 AMP |
| | | | | 18.42 | 192.13 | 287.11 | 98.88 | 288.43 | 281.52 | 287.48 | 268.87 PHASE |
| 278 | 49.16 | 143.73 | 585 | 61.47 | 56.42 | 41.88 | 11.37 | 6.38 | 18.13 | 12.41 | 2.46 AMP |
| | | | | 13.33 | 196.78 | 283.94 | 188.14 | 277.73 | 255.88 | 199.59 | 288.64 PHASE |
| 279 | 48.58 | 73.77 | 585 | 12.15 | 33.17 | 23.87 | 6.73 | 7.96 | 13.87 | 8.19 | .41 AMP |
| | | | | 339.67 | 179.87 | 388.84 | 148.65 | 332.26 | 275.42 | 235.28 | 85.48 PHASE |
| 288 | 41.18 | 89.68 | 585 | 23.98 | 48.72 | 27.17 | 8.28 | 8.61 | 12.27 | 18.59 | .51 AMP |
| | | | | 355.84 | 184.88 | 382.37 | 129.85 | 318.61 | 246.41 | 213.16 | 332.64 PHASE |
| 281 | 41.84 | 111.86 | 585 | 39.18 | 47.55 | 34.44 | 11.42 | 7.88 | 18.19 | 15.44 | 1.68 AMP |
| | | | | 1.29 | 185.67 | 291.58 | 117.45 | 382.89 | 224.48 | 198.87 | 382.88 PHASE |
| 282 | 41.76 | 117.81 | 585 | 47.49 | 58.79 | 37.39 | 12.37 | 5.92 | 21.16 | 16.51 | 1.57 AMP |
| | | | | 2.33 | 183.73 | 283.69 | 185.84 | 288.81 | 218.88 | 182.81 | 285.68 PHASE |
| 283 | 41.97 | 131.15 | 585 | 56.37 | 53.42 | 41.54 | 13.33 | 5.88 | 21.12 | 17.87 | 1.98 AMP |
| | | | | 3.28 | 183.46 | 279.99 | 99.58 | 278.55 | 199.82 | 172.78 | 266.51 PHASE |
| 284 | 38.88 | 55.67 | 585 | 9.54 | 28.58 | 17.11 | 8.43 | 9.25 | 8.32 | 9.29 | .99 AMP |
| | | | | 383.38 | 149.99 | 294.58 | 139.74 | 348.84 | 216.36 | 185.26 | 92.29 PHASE |
| 285 | 36.68 | 73.29 | 585 | 19.77 | 29.51 | 22.83 | 9.71 | 8.24 | 12.65 | 12.59 | .36 AMP |
| | | | | 319.48 | 159.51 | 299.81 | 136.49 | 329.78 | 192.23 | 176.28 | 188.76 PHASE |
| 286 | 34.98 | 95.88 | 585 | 32.32 | 37.16 | 27.81 | 11.85 | 6.91 | 18.66 | 16.86 | .22 AMP |
| | | | | 336.89 | 168.15 | 293.27 | 126.43 | 321.18 | 283.99 | 181.73 | 2.26 PHASE |
| 287 | 34.46 | 186.29 | 585 | 38.15 | 39.41 | 38.11 | 11.68 | 7.38 | 19.88 | 17.79 | .56 AMP |
| | | | | 348.84 | 169.21 | 287.48 | 114.26 | 324.95 | 192.32 | 166.46 | 165.78 PHASE |
| 288 | 34.24 | 113.85 | 585 | 45.23 | 42.25 | 32.53 | 12.37 | 6.99 | 22.33 | 19.83 | .75 AMP |
| | | | | 349.17 | 179.15 | 295.79 | 125.18 | 348.85 | 213.69 | 188.47 | 213.45 PHASE |
| 289 | 34.28 | 123.26 | 585 | 48.78 | 46.39 | 35.94 | 13.53 | 6.49 | 25.48 | 22.85 | 1.47 AMP |
| | | | | 351.37 | 177.48 | 286.68 | 115.43 | 313.99 | 286.18 | 174.57 | 211.28 PHASE |

TABLE VI.- Continued

(e) Continued

| TORSION 20 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 3.52 | 18.69 | 585 | 3.88 | 4.81 | .97 | 2.82 | .71 | .28 | .24 | .29 AMP |
| 276 | 2.65 | 11.99 | 585 | 115.36 | 314.91 | 249.84 | 44.96 | 214.98 | 143.22 | 315.83 | 184.36 PHASE |
| 277 | 1.83 | 13.39 | 585 | 3.76 | 5.45 | 1.59 | 3.21 | .89 | .56 | .45 | .25 AMP |
| 278 | .83 | 15.53 | 585 | 182.81 | 387.84 | 241.72 | 36.84 | 171.86 | 166.81 | 268.64 | 142.15 PHASE |
| 279 | 3.56 | 11.33 | 585 | 4.77 | 5.78 | 2.16 | 3.37 | 1.14 | .78 | .52 | .28 AMP |
| 280 | 2.78 | 11.25 | 585 | 92.84 | 387.87 | 249.24 | 43.88 | 166.17 | 174.62 | 271.58 | 122.19 PHASE |
| 281 | 1.76 | 13.98 | 585 | 6.48 | 6.13 | 3.86 | 4.14 | 1.98 | 1.82 | .62 | .41 AMP |
| 282 | 1.19 | 15.58 | 585 | 82.48 | 299.44 | 255.85 | 46.59 | 168.52 | 182.57 | 277.51 | 186.68 PHASE |
| 283 | .55 | 15.55 | 585 | 3.57 | 5.84 | 1.88 | 2.88 | 1.16 | .84 | .88 | .26 AMP |
| 284 | 5.12 | 12.84 | 585 | 188.75 | 389.15 | 176.68 | 38.83 | 188.36 | 319.75 | 279.18 | 137.41 PHASE |
| 285 | 4.14 | 12.15 | 585 | 4.37 | 5.39 | 1.83 | 2.73 | .99 | .11 | .16 | .29 AMP |
| 286 | 2.99 | 13.87 | 585 | 99.88 | 386.56 | 284.88 | 33.56 | 174.78 | 169.59 | 216.46 | 126.94 PHASE |
| 287 | 2.43 | 13.85 | 585 | 5.69 | 5.88 | 1.51 | 3.41 | 1.88 | .51 | .43 | .48 AMP |
| 288 | 1.66 | 13.72 | 585 | 89.23 | 296.44 | 238.93 | 29.31 | 155.35 | 165.37 | 239.95 | 93.41 PHASE |
| 289 | .72 | 14.78 | 585 | 6.55 | 6.12 | 1.91 | 3.74 | 1.95 | .73 | .59 | .53 AMP |
| | | | | 83.36 | 288.82 | 238.38 | 25.23 | 145.97 | 149.16 | 236.48 | 75.67 PHASE |
| | | | | 7.49 | 6.28 | 2.33 | 3.75 | 2.88 | .86 | .45 | .55 AMP |
| | | | | 78.41 | 283.13 | 243.89 | 22.13 | 134.81 | 148.81 | 237.23 | 74.51 PHASE |
| | | | | 3.89 | 5.27 | 2.67 | 2.64 | .91 | .77 | .39 | .88 AMP |
| | | | | 91.85 | 285.95 | 137.38 | 9.45 | 135.49 | 358.25 | 334.29 | 68.95 PHASE |
| | | | | 4.87 | 5.52 | 2.32 | 2.89 | .68 | .64 | .23 | .18 AMP |
| | | | | 88.82 | 288.87 | 149.22 | 14.12 | 126.16 | 353.43 | 348.49 | 81.95 PHASE |
| | | | | 5.17 | 5.78 | 2.87 | 2.58 | 1.88 | .56 | .33 | .24 AMP |
| | | | | 82.69 | 285.93 | 178.67 | 17.29 | 151.68 | 351.48 | 262.24 | 91.28 PHASE |
| | | | | 5.68 | 5.54 | 2.82 | 2.34 | .85 | .48 | .29 | .38 AMP |
| | | | | 79.11 | 282.92 | 176.94 | 8.65 | 118.25 | 6.81 | 234.88 | 94.88 PHASE |
| | | | | 6.45 | 5.46 | 2.22 | 2.78 | 1.14 | .46 | .41 | .48 AMP |
| | | | | 77.44 | 288.82 | 198.99 | 21.58 | 126.47 | 63.25 | 247.46 | 116.76 PHASE |
| | | | | 7.38 | 5.69 | 1.88 | 3.87 | 1.97 | .46 | .25 | .82 AMP |
| | | | | 69.95 | 284.28 | 212.61 | 21.81 | 116.92 | 84.53 | 272.83 | 98.39 PHASE |

TABLE VI.- Continued

(e) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|-------|--------|--------|--------|--------|-------|
| RUN NO 36 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 275 | 32.36 | 35.24 | 585 | 15.79 | 19.63 | 9.74 | 3.52 | 1.95 | .43 | .67 | .32 | AMP |
| | | | | 144.24 | 349.57 | 96.56 | 38.62 | 98.84 | 322.22 | 316.89 | 226.89 | PHASE |
| 276 | 34.52 | 36.78 | 585 | 16.73 | 28.44 | 18.72 | 3.95 | 1.99 | .47 | .76 | .28 | AMP |
| | | | | 139.11 | 348.14 | 81.23 | 28.58 | 91.79 | 388.37 | 282.84 | 225.73 | PHASE |
| 277 | 36.64 | 38.42 | 585 | 17.73 | 28.98 | 18.87 | 4.17 | 1.53 | .54 | .82 | .29 | AMP |
| | | | | 137.88 | 338.13 | 78.34 | 23.68 | 93.84 | 299.58 | 275.63 | 236.95 | PHASE |
| 278 | 38.77 | 48.29 | 585 | 18.77 | 21.46 | 11.13 | 4.22 | 1.17 | .66 | .84 | .23 | AMP |
| | | | | 133.75 | 335.27 | 76.73 | 22.43 | 113.82 | 289.69 | 277.72 | 289.89 | PHASE |
| 279 | 38.18 | 43.22 | 585 | 28.85 | 23.36 | 18.97 | 4.28 | 1.91 | .57 | .66 | .57 | AMP |
| | | | | 143.26 | 344.93 | 94.22 | 48.63 | 128.87 | 349.75 | 296.64 | 233.11 | PHASE |
| 280 | 32.35 | 43.88 | 585 | 28.64 | 23.37 | 11.83 | 4.28 | 1.83 | .42 | .72 | .54 | AMP |
| | | | | 141.28 | 342.18 | 88.25 | 48.18 | 121.21 | 348.87 | 288.29 | 245.75 | PHASE |
| 281 | 34.42 | 45.48 | 585 | 21.51 | 23.67 | 11.59 | 3.87 | 1.58 | .56 | .81 | .49 | AMP |
| | | | | 136.84 | 335.58 | 79.54 | 48.79 | 118.83 | 327.18 | 268.38 | 228.67 | PHASE |
| 282 | 35.94 | 46.85 | 585 | 22.18 | 23.89 | 11.57 | 3.73 | 1.27 | .63 | .83 | .41 | AMP |
| | | | | 133.62 | 329.98 | 73.51 | 34.92 | 99.78 | 319.52 | 256.93 | 285.36 | PHASE |
| 283 | 36.31 | 46.68 | 585 | 22.33 | 24.18 | 11.54 | 3.64 | 1.33 | .68 | .82 | .34 | AMP |
| | | | | 131.31 | 327.86 | 69.97 | 32.21 | 96.55 | 389.28 | 247.69 | 188.75 | PHASE |
| 284 | 26.45 | 49.92 | 585 | 22.41 | 24.41 | 12.55 | 5.14 | 4.13 | .91 | .74 | .84 | AMP |
| | | | | 141.35 | 331.27 | 73.96 | 15.85 | 148.81 | 23.23 | 272.97 | 211.84 | PHASE |
| 285 | 28.66 | 48.57 | 585 | 23.89 | 23.88 | 12.28 | 4.55 | 3.28 | .81 | .71 | .82 | AMP |
| | | | | 141.86 | 333.83 | 75.22 | 27.34 | 135.59 | 41.57 | 278.96 | 232.62 | PHASE |
| 286 | 38.68 | 48.73 | 585 | 23.68 | 23.79 | 12.31 | 3.57 | 2.77 | .72 | .68 | .85 | AMP |
| | | | | 139.84 | 338.75 | 72.98 | 25.44 | 128.15 | 41.78 | 268.87 | 233.55 | PHASE |
| 287 | 31.59 | 47.82 | 585 | 23.88 | 23.67 | 12.14 | 3.41 | 2.94 | .67 | .67 | .83 | AMP |
| | | | | 137.65 | 328.82 | 68.47 | 23.43 | 119.49 | 47.86 | 245.83 | 228.62 | PHASE |
| 288 | 32.49 | 49.24 | 585 | 24.84 | 23.66 | 12.39 | 3.84 | 2.98 | .68 | .77 | .88 | AMP |
| | | | | 139.64 | 334.14 | 78.86 | 37.55 | 142.18 | 72.48 | 262.82 | 258.71 | PHASE |
| 289 | 33.39 | 49.58 | 585 | 24.29 | 24.62 | 12.33 | 2.29 | 3.59 | .53 | .89 | .85 | AMP |
| | | | | 135.64 | 328.38 | 78.97 | 18.57 | 128.26 | 75.98 | 258.28 | 227.78 | PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 36 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 275 | 25.18 | 57.19 | 585 | 3.68 | 21.65 | 14.18 | 3.42 | 6.47 | 27.25 | 12.97 | 1.98 | AMP |
| | | | | 297.55 | 198.38 | 319.51 | 144.85 | 317.11 | 311.72 | 288.23 | 134.22 | PHASE |
| 276 | 26.91 | 78.93 | 585 | 12.88 | 31.81 | 18.59 | 5.95 | 8.36 | 25.34 | 12.92 | .54 | AMP |
| | | | | 351.38 | 187.46 | 318.11 | 184.99 | 281.89 | 288.21 | 258.86 | 188.93 | PHASE |
| 277 | 27.56 | 97.39 | 585 | 28.21 | 38.84 | 24.14 | 18.71 | 8.35 | 28.49 | 15.67 | .83 | AMP |
| | | | | 5.48 | 193.18 | 389.13 | 185.65 | 284.59 | 279.63 | 218.19 | 247.53 | PHASE |
| 278 | 27.94 | 127.88 | 585 | 45.32 | 45.46 | 38.78 | 14.41 | 7.28 | 18.64 | 19.67 | 1.12 | AMP |
| | | | | 9.34 | 197.86 | 386.22 | 186.91 | 268.97 | 257.97 | 287.86 | 298.91 | PHASE |
| 279 | 23.49 | 63.64 | 585 | 11.29 | 25.24 | 17.28 | 8.78 | 18.89 | 21.86 | 14.59 | .65 | AMP |
| | | | | 338.17 | 177.34 | 329.56 | 149.79 | 328.66 | 274.35 | 245.68 | 114.65 | PHASE |
| 280 | 23.23 | 88.48 | 585 | 19.75 | 31.88 | 28.81 | 11.14 | 11.72 | 18.38 | 18.12 | .34 | AMP |
| | | | | 348.33 | 185.82 | 325.55 | 138.18 | 315.46 | 248.31 | 223.49 | 26.72 | PHASE |
| 281 | 22.88 | 181.58 | 585 | 31.89 | 38.28 | 26.65 | 15.27 | 18.65 | 27.87 | 25.18 | .29 | AMP |
| | | | | 356.88 | 186.83 | 315.25 | 125.48 | 299.72 | 227.62 | 285.98 | 283.92 | PHASE |
| 282 | 22.12 | 189.63 | 585 | 37.58 | 41.67 | 29.34 | 16.81 | 8.45 | 32.66 | 26.36 | .42 | AMP |
| | | | | 367.72 | 185.28 | 388.87 | 114.28 | 282.87 | 213.89 | 189.77 | 46.48 | PHASE |
| 283 | 21.59 | 119.41 | 585 | 44.33 | 44.65 | 33.89 | 18.23 | 8.25 | 32.79 | 28.34 | .38 | AMP |
| | | | | 359.26 | 185.17 | 383.52 | 187.68 | 271.66 | 282.85 | 178.83 | 134.58 | PHASE |
| 284 | 22.88 | 55.44 | 585 | 18.98 | 16.61 | 12.88 | 18.72 | 11.19 | 11.99 | 16.36 | .91 | AMP |
| | | | | 382.99 | 146.86 | 316.89 | 146.52 | 328.21 | 219.98 | 189.85 | 169.86 | PHASE |
| 285 | 28.16 | 76.84 | 585 | 15.42 | 23.78 | 18.53 | 13.15 | 18.74 | 16.96 | 21.88 | 1.48 | AMP |
| | | | | 318.29 | 159.81 | 328.66 | 138.86 | 315.11 | 189.28 | 181.65 | 245.58 | PHASE |
| 286 | 18.87 | 98.82 | 585 | 27.94 | 38.35 | 22.99 | 15.88 | 9.28 | 26.59 | 27.38 | 1.87 | AMP |
| | | | | 333.71 | 168.54 | 316.45 | 131.36 | 385.81 | 284.25 | 185.91 | 225.59 | PHASE |
| 287 | 17.21 | 182.42 | 585 | 32.51 | 32.51 | 24.98 | 16.54 | 9.15 | 29.83 | 29.69 | 1.31 | AMP |
| | | | | 338.88 | 178.15 | 311.13 | 119.65 | 389.18 | 191.53 | 171.32 | 183.48 | PHASE |
| 288 | 16.29 | 118.58 | 585 | 38.88 | 35.78 | 27.19 | 17.88 | 7.88 | 33.46 | 32.47 | 1.64 | AMP |
| | | | | 346.41 | 188.22 | 328.35 | 138.73 | 329.98 | 213.98 | 193.29 | 282.98 | PHASE |
| 289 | 15.78 | 128.32 | 585 | 41.14 | 48.15 | 38.16 | 19.27 | 8.17 | 38.98 | 35.36 | 2.46 | AMP |
| | | | | 348.96 | 178.69 | 311.61 | 122.82 | 291.59 | 288.42 | 188.12 | 198.47 | PHASE |

TABLE VI.- Continued

(e) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 2.86 | 7.32 | 585 | 2.53 | 3.35 | 1.38 | 2.82 | .44 | .19 | .19 | .28 AMP |
| | | | | 59.22 | 383.37 | 216.42 | 15.22 | 283.18 | 115.69 | 299.36 | 123.46 PHASE |
| 276 | 1.46 | 8.62 | 585 | 3.38 | 3.87 | 1.86 | 2.28 | .46 | .51 | .28 | .15 AMP |
| | | | | 63.41 | 296.27 | 218.21 | 8.86 | 146.54 | 132.88 | 248.54 | 79.88 PHASE |
| 277 | .48 | 18.18 | 585 | 4.42 | 4.12 | 2.29 | 2.43 | .69 | .33 | .19 | .19 AMP |
| | | | | 68.57 | 296.24 | 216.88 | 17.86 | 129.87 | 141.93 | 238.59 | 66.38 PHASE |
| 278 | -.61 | 11.55 | 585 | 6.88 | 4.28 | 3.82 | 3.13 | 1.37 | .94 | .42 | .33 AMP |
| | | | | 56.59 | 288.21 | 222.11 | 18.14 | 118.18 | 152.87 | 248.84 | 59.68 PHASE |
| 279 | 2.16 | 7.97 | 585 | 2.98 | 3.35 | 1.48 | 2.12 | .64 | .15 | .11 | .17 AMP |
| | | | | 67.16 | 294.78 | 172.87 | 358.28 | 161.19 | 221.88 | 2.66 | 97.42 PHASE |
| 280 | 1.38 | 8.28 | 585 | 3.84 | 3.62 | 1.58 | 1.94 | .58 | .18 | .13 | .15 AMP |
| | | | | 63.55 | 294.25 | 187.65 | 359.97 | 137.51 | 181.14 | 65.83 | 89.31 PHASE |
| 281 | .42 | 18.88 | 585 | 5.85 | 3.91 | 2.87 | 2.57 | 1.28 | .47 | .11 | .28 AMP |
| | | | | 59.47 | 284.87 | 198.27 | 356.29 | 113.78 | 158.22 | 172.75 | 38.18 PHASE |
| 282 | -.13 | 18.99 | 585 | 5.87 | 4.81 | 2.38 | 2.92 | 1.48 | .58 | .28 | .27 AMP |
| | | | | 56.83 | 276.17 | 281.45 | 352.49 | 183.91 | 133.61 | 184.18 | 23.83 PHASE |
| 283 | -.73 | 11.31 | 585 | 6.73 | 4.81 | 2.67 | 2.94 | 1.62 | .68 | .89 | .38 AMP |
| | | | | 53.58 | 271.14 | 284.31 | 349.89 | 91.33 | 129.96 | 198.64 | 27.28 PHASE |
| 284 | 3.63 | 8.92 | 585 | 2.85 | 3.56 | 2.46 | 1.78 | .33 | .56 | .45 | .86 AMP |
| | | | | 48.39 | 266.62 | 138.25 | 339.68 | 73.19 | 297.73 | 312.29 | 181.88 PHASE |
| 285 | 2.69 | 9.33 | 585 | 3.68 | 3.69 | 2.36 | 1.36 | .32 | .51 | .34 | .89 AMP |
| | | | | 52.65 | 271.88 | 143.17 | 342.85 | 38.47 | 288.49 | 334.98 | 47.24 PHASE |
| 286 | 1.68 | 18.42 | 585 | 4.63 | 3.77 | 2.46 | 1.86 | .53 | .52 | .89 | .89 AMP |
| | | | | 51.85 | 278.83 | 168.56 | 347.12 | 111.35 | 283.22 | 389.31 | 36.73 PHASE |
| 287 | 1.16 | 18.47 | 585 | 5.89 | 3.69 | 2.56 | 1.71 | .45 | .43 | .87 | .11 AMP |
| | | | | 58.89 | 269.88 | 163.89 | 337.43 | 56.73 | 288.92 | 28.92 | 48.49 PHASE |
| 288 | .47 | 11.28 | 585 | 5.88 | 3.46 | 2.85 | 2.86 | .73 | .31 | .14 | .15 AMP |
| | | | | 58.76 | 276.38 | 181.13 | 358.77 | 73.29 | 336.29 | 125.72 | 64.56 PHASE |
| 289 | -.37 | 11.88 | 585 | 6.82 | 3.46 | 2.73 | 3.19 | 1.46 | .16 | .88 | .47 AMP |
| | | | | 44.56 | 273.88 | 186.69 | 351.98 | 78.97 | 18.88 | 358.23 | 48.31 PHASE |

TABLE VI.- Continued

(e) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 28.67 | 41.86 | 585 | 19.21 137.84 | 24.15 358.83 | 12.56 85.84 | 1.86 383.58 | .92 337.22 | 1.82 244.56 | 1.14 72.48 | 1.13 247.14 |
| 276 | 23.88 | 46.82 | 585 | 28.57 132.81 | 25.18 348.42 | 14.44 72.37 | 1.46 297.83 | .75 318.63 | .91 248.44 | .92 58.28 | 1.54 219.12 |
| 277 | 25.28 | 48.53 | 585 | 22.82 131.68 | 25.85 338.12 | 15.38 71.88 | 1.64 298.58 | .79 315.89 | .89 243.15 | .67 91.43 | 1.79 214.55 |
| 278 | 27.31 | 52.79 | 585 | 23.68 129.82 | 26.81 335.73 | 16.46 71.77 | 1.98 288.86 | .73 324.48 | 1.18 245.18 | .87 133.59 | 1.44 285.42 |
| 279 | 17.49 | 51.82 | 585 | 24.27 138.24 | 28.79 346.58 | 13.91 81.58 | .85 352.44 | 1.56 324.36 | 1.29 211.97 | 1.49 74.35 | 2.15 246.32 |
| 280 | 19.79 | 51.85 | 585 | 25.86 136.88 | 28.84 343.33 | 14.53 78.23 | .93 339.85 | 1.35 312.38 | 1.89 217.94 | .68 181.59 | 2.23 238.48 |
| 281 | 21.95 | 54.74 | 585 | 26.29 132.98 | 29.48 336.73 | 15.93 71.25 | 1.12 315.82 | 1.38 385.53 | 1.16 213.67 | .78 128.87 | 2.81 287.21 |
| 282 | 22.76 | 56.33 | 585 | 26.99 138.18 | 29.88 331.16 | 16.15 65.54 | 1.28 382.79 | 1.25 293.98 | 1.27 212.17 | .87 128.38 | 1.97 186.87 |
| 283 | 23.74 | 57.93 | 585 | 27.33 128.16 | 38.13 328.28 | 16.46 62.72 | 1.19 295.38 | 1.25 298.17 | 1.26 218.84 | 1.17 137.72 | 1.68 171.48 |
| 284 | 13.42 | 55.34 | 585 | 25.83 136.73 | 29.12 332.56 | 15.46 59.74 | 1.14 343.45 | 2.88 289.76 | 1.73 198.35 | 1.73 48.87 | 3.78 212.54 |
| 285 | 15.86 | 55.13 | 585 | 26.71 137.79 | 28.45 333.92 | 15.62 62.66 | 1.18 338.61 | 1.94 283.73 | 1.22 287.75 | .58 53.58 | 2.23 223.28 |
| 286 | 17.96 | 54.92 | 585 | 27.72 135.93 | 28.51 331.76 | 16.35 61.59 | 1.86 316.67 | 1.88 288.34 | 1.75 212.32 | .98 11.83 | 2.88 216.18 |
| 287 | 19.84 | 54.97 | 585 | 28.14 133.95 | 28.31 328.99 | 16.41 57.64 | 1.84 313.83 | 1.88 268.52 | .79 288.94 | .61 326.87 | 2.53 212.26 |
| 288 | 19.96 | 56.48 | 585 | 28.45 135.98 | 28.64 334.95 | 16.96 67.66 | 1.82 319.96 | 2.81 286.77 | .75 243.16 | .75 341.48 | 2.34 233.81 |
| 289 | 28.78 | 58.34 | 585 | 28.68 131.88 | 29.74 329.22 | 17.87 68.62 | 1.54 284.71 | 2.37 278.51 | 1.88 243.92 | .98 277.12 | 2.72 286.12 |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 37.18 | 63.92 | 585 | 3.52 386.58 | 16.92 195.89 | 11.33 346.29 | 3.79 151.29 | 7.83 317.82 | 33.71 313.88 | 16.92 294.69 | 2.43 146.28 |
| 276 | 38.34 | 67.17 | 585 | 18.84 348.54 | 24.87 191.48 | 15.77 334.92 | 6.38 188.43 | 9.54 278.38 | 31.53 282.25 | 16.87 258.87 | .88 192.35 |
| 277 | 38.51 | 96.94 | 585 | 22.87 2.25 | 31.88 196.71 | 21.27 331.19 | 11.63 186.16 | 9.81 277.26 | 25.68 281.46 | 19.47 224.27 | 1.33 236.89 |
| 278 | 38.68 | 118.32 | 585 | 36.39 6.19 | 37.64 281.89 | 27.72 326.51 | 15.66 186.78 | 9.36 257.27 | 23.98 268.97 | 23.84 212.88 | .88 287.37 |
| 279 | 36.18 | 61.88 | 585 | 18.81 329.95 | 18.88 188.48 | 14.13 351.34 | 8.77 152.18 | 13.81 325.43 | 25.91 277.55 | 18.79 252.81 | 1.82 177.71 |
| 280 | 35.39 | 71.16 | 585 | 16.78 345.64 | 24.49 188.95 | 17.81 346.24 | 11.58 138.93 | 13.72 318.35 | 22.37 252.95 | 23.38 238.15 | .22 288.46 |
| 281 | 34.42 | 92.76 | 585 | 25.62 353.64 | 38.25 198.65 | 23.61 334.68 | 16.87 124.96 | 12.62 289.63 | 33.51 231.94 | 31.73 212.33 | .68 166.48 |
| 282 | 33.78 | 183.92 | 585 | 38.92 355.38 | 33.41 188.75 | 26.51 326.58 | 17.88 113.56 | 18.76 267.67 | 39.88 217.93 | 33.86 196.82 | 1.42 97.48 |
| 283 | 32.98 | 118.56 | 585 | 35.49 357.35 | 36.42 188.58 | 38.87 328.86 | 19.62 186.42 | 18.91 255.54 | 39.28 287.85 | 35.44 185.77 | 1.72 118.48 |
| 284 | 34.64 | 57.41 | 585 | 18.24 385.28 | 11.76 145.52 | 18.14 343.48 | 18.93 153.55 | 12.73 321.61 | 14.37 225.65 | 28.62 193.96 | 2.18 195.31 |
| 285 | 33.18 | 78.99 | 585 | 16.88 319.49 | 17.34 162.15 | 15.23 348.77 | 13.25 148.56 | 12.47 385.35 | 19.83 192.99 | 27.99 186.85 | 2.91 249.16 |
| 286 | 38.98 | 84.79 | 585 | 23.54 333.33 | 22.96 171.54 | 19.67 334.26 | 16.28 131.23 | 18.97 298.88 | 38.63 288.55 | 34.68 191.75 | 2.31 223.46 |
| 287 | 29.77 | 93.84 | 585 | 27.47 337.65 | 25.15 172.87 | 21.68 328.12 | 17.28 118.67 | 18.36 289.14 | 32.21 195.81 | 37.31 177.95 | 1.97 195.88 |
| 288 | 28.65 | 182.29 | 585 | 32.15 345.93 | 29.14 182.85 | 24.21 336.25 | 18.74 129.11 | 8.73 381.34 | 38.74 217.54 | 48.41 288.58 | 2.45 284.23 |
| 289 | 27.58 | 116.11 | 585 | 35.28 348.91 | 32.71 188.38 | 27.75 327.83 | 28.62 128.89 | 11.56 265.72 | 45.58 212.91 | 43.84 188.12 | 3.44 197.44 |

TABLE VI.- Continued

(e) Continued

| TORSION 58 PERCENT RADIUS | | | | | | | | | | | |
|--------------------------------------|-------|---------|-----|-------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | - .86 | 5.88 | 585 | 2.51 | 2.64 | .84 | 1.23 | .16 | .13 | .16 | .16 AMP |
| 276 | -1.42 | 7.12 | 585 | 73.58 | 321.18 | 216.67 | 48.98 | 266.81 | 138.21 | 356.91 | 142.13 PHASE |
| 277 | -1.96 | 8.19 | 585 | 3.16 | 3.87 | 1.22 | 1.48 | .18 | .41 | .21 | .14 AMP |
| 278 | -2.54 | 9.28 | 585 | 67.27 | 311.89 | 212.85 | 36.69 | 114.66 | 163.58 | 298.44 | 98.81 PHASE |
| 279 | - .69 | 6.11 | 585 | 3.86 | 3.36 | 1.49 | 1.53 | .36 | .56 | .22 | .15 AMP |
| 280 | -1.17 | 6.57 | 585 | 65.88 | 311.58 | 218.83 | 46.58 | 114.55 | 176.77 | 298.78 | 92.45 PHASE |
| 281 | -1.78 | 7.98 | 585 | 4.75 | 3.62 | 1.96 | 2.82 | .97 | .75 | .27 | .22 AMP |
| 282 | -2.14 | 8.55 | 585 | 62.37 | 387.44 | 221.76 | 43.54 | 121.93 | 188.74 | 389.71 | 88.28 PHASE |
| 283 | -2.52 | 8.79 | 585 | 2.75 | 2.61 | .98 | 1.23 | .28 | .16 | .23 | .12 AMP |
| 284 | .62 | 6.45 | 585 | 73.51 | 312.79 | 175.84 | 24.43 | 165.95 | 258.78 | 48.64 | 165.35 PHASE |
| 285 | - .83 | 7.88 | 585 | 3.36 | 2.89 | 1.12 | 1.18 | .26 | .23 | .24 | .13 AMP |
| 286 | - .71 | 7.88 | 585 | 69.99 | 312.84 | 188.21 | 28.44 | 92.41 | 238.89 | 76.87 | 176.76 PHASE |
| 287 | -1.07 | 8.88 | 585 | 4.11 | 3.12 | 1.48 | 1.59 | .92 | .42 | .11 | .86 AMP |
| 288 | -1.55 | 8.56 | 585 | 65.39 | 385.35 | 197.52 | 23.55 | 112.61 | 285.82 | 82.73 | 61.44 PHASE |
| 289 | -2.21 | 9.21 | 585 | 4.57 | 3.16 | 1.74 | 1.88 | 1.18 | .44 | .87 | .11 AMP |
| | | | | 61.54 | 299.44 | 288.83 | 18.89 | 186.18 | 187.58 | 121.76 | 8.68 PHASE |
| | | | | 5.87 | 3.13 | 1.99 | 1.93 | 1.38 | .49 | .15 | .12 AMP |
| | | | | 58.84 | 297.84 | 282.97 | 13.96 | 96.62 | 183.86 | 58.54 | 18.82 PHASE |
| | | | | 2.43 | 2.69 | 1.72 | 1.84 | .29 | .46 | .51 | .17 AMP |
| | | | | 58.64 | 284.12 | 143.13 | 12.38 | 23.45 | 311.18 | 356.38 | 172.89 PHASE |
| | | | | 3.86 | 2.79 | 1.68 | .72 | .53 | .47 | .47 | .12 AMP |
| | | | | 68.73 | 292.31 | 154.15 | 18.86 | 15.31 | 294.35 | 16.42 | 172.18 PHASE |
| | | | | 3.73 | 2.89 | 1.88 | 1.89 | .31 | .58 | .27 | .87 AMP |
| | | | | 59.28 | 293.17 | 169.85 | 17.64 | 62.17 | 291.81 | 27.56 | 198.28 PHASE |
| | | | | 4.85 | 2.79 | 1.91 | .98 | .68 | .52 | .28 | .18 AMP |
| | | | | 57.83 | 289.54 | 172.49 | 8.81 | 38.41 | 288.81 | 42.58 | 281.73 PHASE |
| | | | | 4.58 | 2.74 | 2.16 | 1.23 | .81 | .38 | .27 | .88 AMP |
| | | | | 57.42 | 293.72 | 188.22 | 19.12 | 68.71 | 319.81 | 181.22 | 249.72 PHASE |
| | | | | 5.87 | 2.84 | 2.12 | 2.83 | 1.29 | .15 | .22 | .22 AMP |
| | | | | 49.81 | 388.26 | 186.67 | 17.89 | 68.48 | 294.28 | 63.59 | 69.96 PHASE |

TABLE VI.- Continued

(e) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 3.23 | 41.18 | 585 | 19.18 143.22 | 28.54 358.34 | 8.88 62.73 | 4.57 225.57 | 4.76 269.84 | .64 91.59 | .81 247.63 | 1.27 51.32 AMP PHASE |
| 276 | 5.81 | 42.78 | 585 | 28.43 148.18 | 21.54 342.84 | 9.52 58.98 | 4.45 288.58 | 4.99 262.11 | .61 86.62 | .51 233.94 | 1.81 24.86 AMP PHASE |
| 277 | 8.48 | 43.57 | 585 | 21.41 141.17 | 22.29 341.74 | 18.41 51.17 | 4.12 216.21 | 4.68 268.17 | .69 93.28 | .33 317.28 | 2.26 18.99 AMP PHASE |
| 278 | 18.87 | 46.46 | 585 | 22.96 142.43 | 23.74 348.89 | 11.11 58.82 | 3.95 221.79 | 4.58 288.84 | .95 92.37 | .84 348.14 | 1.81 4.38 AMP PHASE |
| 279 | .13 | 46.17 | 585 | 22.39 144.27 | 24.38 346.22 | 18.13 52.27 | 5.26 242.36 | 4.74 291.34 | .82 38.97 | 1.53 278.82 | 2.16 58.52 AMP PHASE |
| 280 | 2.82 | 45.98 | 585 | 22.76 145.18 | 24.62 343.89 | 18.57 49.92 | 4.78 246.85 | 4.91 293.99 | .72 17.52 | 1.11 323.68 | 2.46 48.55 AMP PHASE |
| 281 | 5.39 | 47.32 | 585 | 23.71 143.81 | 25.57 338.21 | 11.34 43.24 | 4.58 243.38 | 4.96 286.86 | .34 355.72 | 1.29 323.66 | 2.48 5.32 AMP PHASE |
| 282 | 6.61 | 48.39 | 585 | 24.55 142.85 | 26.11 333.76 | 11.51 37.78 | 4.31 239.96 | 4.75 277.89 | .15 314.22 | 1.45 311.46 | 2.44 342.14 AMP PHASE |
| 283 | 7.82 | 49.77 | 585 | 24.86 141.36 | 26.52 338.94 | 11.67 35.69 | 4.22 239.96 | 5.18 275.62 | .19 283.68 | 1.72 314.88 | 2.18 323.99 AMP PHASE |
| 284 | -4.84 | 48.38 | 585 | 23.87 139.33 | 24.68 331.38 | 13.49 32.77 | 5.22 224.92 | 7.85 24.92 | 1.32 388.84 | 1.57 16.34 | 4.11 271.37 AMP PHASE |
| 285 | -1.38 | 47.23 | 585 | 23.52 142.76 | 24.38 333.62 | 13.38 36.54 | 4.41 236.11 | 6.17 297.77 | .86 17.83 | 1.21 331.16 | 3.98 28.84 AMP PHASE |
| 286 | 1.35 | 47.62 | 585 | 24.34 143.26 | 24.72 332.44 | 13.68 35.56 | 3.62 237.96 | 5.81 298.13 | .45 295.88 | .77 325.27 | 3.88 16.99 AMP PHASE |
| 287 | 2.65 | 47.99 | 585 | 24.66 142.64 | 24.63 338.89 | 13.67 31.37 | 3.55 238.83 | 6.28 282.34 | .68 272.25 | .52 341.38 | 2.94 11.86 AMP PHASE |
| 288 | 3.89 | 48.28 | 585 | 25.11 145.98 | 24.85 336.94 | 13.83 48.99 | 3.45 252.13 | 6.35 383.82 | .94 275.18 | .26 15.93 | 2.82 38.91 AMP PHASE |
| 289 | 4.89 | 58.89 | 585 | 24.98 143.24 | 26.28 331.78 | 14.81 33.29 | 3.85 254.51 | 7.55 292.11 | 1.87 262.84 | .98 37.57 | 3.35 7.15 AMP PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 275 | 52.26 | 48.88 | 585 | 18.12 141.85 | 18.15 335.78 | 8.78 44.44 | 3.64 286.89 | 6.43 286.21 | 13.51 386.86 | 7.31 288.88 | 1.21 97.86 AMP PHASE |
| 276 | 53.66 | 48.48 | 585 | 9.17 129.25 | 9.45 318.42 | 11.89 28.57 | 3.37 167.88 | 7.51 263.28 | 12.74 276.59 | 7.23 253.78 | 1.88 33.34 AMP PHASE |
| 277 | 55.48 | 46.36 | 585 | 8.85 112.73 | 9.61 387.68 | 12.82 22.83 | 4.28 148.98 | 7.38 262.71 | 18.46 275.54 | 7.72 228.89 | 1.22 18.12 AMP PHASE |
| 278 | 58.87 | 46.58 | 585 | 7.85 93.18 | 18.65 298.91 | 14.66 15.28 | 5.44 129.78 | 6.97 252.88 | 9.82 254.67 | 9.82 289.93 | 1.42 8.66 AMP PHASE |
| 279 | 58.34 | 44.45 | 585 | 18.58 148.47 | 12.88 337.41 | 11.89 38.99 | 4.78 282.87 | 8.41 384.38 | 9.82 274.61 | 9.82 258.28 | 1.42 68.44 AMP PHASE |
| 280 | 51.55 | 46.56 | 585 | 9.25 133.99 | 11.32 326.41 | 12.39 32.57 | 4.55 181.89 | 8.88 294.86 | 8.95 251.88 | 9.59 228.94 | 1.58 41.88 AMP PHASE |
| 281 | 53.49 | 56.93 | 585 | 8.31 119.98 | 11.44 312.58 | 14.23 28.13 | 5.38 153.42 | 8.52 276.22 | 13.89 228.47 | 12.68 218.88 | 1.37 19.31 AMP PHASE |
| 282 | 54.74 | 59.81 | 585 | 8.23 118.15 | 11.64 383.77 | 14.93 11.38 | 5.64 135.67 | 7.78 257.19 | 16.39 213.74 | 13.19 195.84 | 1.64 11.85 AMP PHASE |
| 283 | 55.72 | 68.38 | 585 | 8.13 99.82 | 11.84 297.88 | 15.59 5.11 | 6.12 123.48 | 8.88 248.53 | 16.63 282.94 | 13.87 184.75 | 1.88 5.31 AMP PHASE |
| 284 | 45.92 | 41.74 | 585 | 11.88 148.86 | 14.19 329.34 | 12.35 27.96 | 6.31 188.59 | 18.86 383.98 | 5.15 226.82 | 8.62 194.57 | 1.75 22.84 AMP PHASE |
| 285 | 47.74 | 44.88 | 585 | 9.75 141.24 | 12.42 326.88 | 13.26 25.78 | 5.69 174.38 | 9.68 292.75 | 6.74 189.62 | 18.83 183.18 | 1.85 358.87 AMP PHASE |
| 286 | 49.82 | 58.53 | 585 | 8.48 134.35 | 11.34 317.87 | 14.26 19.48 | 6.81 155.78 | 8.95 279.48 | 12.29 287.51 | 13.75 187.41 | 1.54 358.67 AMP PHASE |
| 287 | 58.95 | 55.18 | 585 | 7.76 128.15 | 18.84 311.98 | 14.73 13.87 | 5.76 141.68 | 9.13 273.11 | 13.36 194.88 | 14.82 173.58 | 1.52 1.45 AMP PHASE |
| 288 | 51.94 | 58.72 | 585 | 7.82 123.77 | 18.45 315.97 | 15.58 28.83 | 6.18 149.46 | 8.38 287.67 | 16.86 216.25 | 16.12 196.69 | 1.45 38.59 AMP PHASE |
| 289 | 52.44 | 69.21 | 585 | 6.43 188.78 | 18.98 387.64 | 16.46 11.29 | 6.71 133.58 | 18.13 266.81 | 19.77 211.86 | 17.83 184.84 | 1.66 353.68 AMP PHASE |

TABLE VI.- Continued

(e) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------|-------|
| RUN NO 36 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 275 | -3.87 | 3.84 | 585 | 2.43 | .93 | .89 | .43 | .38 | .81 | .86 | .22 | AMP |
| | | | | 124.27 | 336.18 | 248.93 | 79.71 | 59.47 | 286.13 | 156.33 | 66.16 | PHASE |
| 276 | -3.31 | 4.37 | 585 | 2.63 | 1.16 | 1.14 | .57 | .46 | .19 | .88 | .21 | AMP |
| | | | | 189.24 | 316.28 | 238.62 | 77.22 | 46.33 | 158.67 | 181.88 | 36.54 | PHASE |
| 277 | -3.54 | 4.99 | 585 | 2.95 | 1.36 | 1.31 | .69 | .62 | .28 | .87 | .23 | AMP |
| | | | | 99.22 | 312.34 | 228.37 | 87.62 | 55.97 | 162.82 | 192.77 | 41.51 | PHASE |
| 278 | -3.77 | 5.55 | 585 | 3.41 | 1.59 | 1.58 | .83 | .89 | .36 | .85 | .27 | AMP |
| | | | | 98.49 | 385.76 | 223.75 | 79.37 | 68.45 | 167.27 | 295.67 | 37.35 | PHASE |
| 279 | -2.94 | 3.81 | 585 | 2.36 | .68 | .79 | .51 | .49 | .15 | .22 | .17 | AMP |
| | | | | 121.24 | 318.15 | 235.28 | 93.57 | 65.55 | 261.14 | 88.84 | 75.32 | PHASE |
| 280 | -3.16 | 4.19 | 585 | 2.55 | .89 | .95 | .58 | .67 | .17 | .23 | .13 | AMP |
| | | | | 189.37 | 313.85 | 231.99 | 183.88 | 54.46 | 245.73 | 91.66 | 86.68 | PHASE |
| 281 | -3.38 | 4.58 | 585 | 2.87 | 1.11 | 1.16 | .78 | .96 | .21 | .28 | .19 | AMP |
| | | | | 98.11 | 381.61 | 228.95 | 98.88 | 61.89 | 281.93 | 85.86 | 21.88 | PHASE |
| 282 | -3.49 | 5.81 | 585 | 3.88 | 1.28 | 1.28 | .75 | 1.85 | .19 | .28 | .22 | AMP |
| | | | | 92.15 | 294.68 | 214.13 | 78.31 | 54.16 | 178.19 | 81.16 | 351.84 | PHASE |
| 283 | -3.58 | 5.39 | 585 | 3.38 | 1.25 | 1.38 | .76 | 1.18 | .17 | .23 | .23 | AMP |
| | | | | 88.23 | 292.22 | 211.23 | 77.48 | 48.86 | 171.58 | 51.85 | 349.34 | PHASE |
| 284 | -2.33 | 3.71 | 585 | 1.91 | .54 | .73 | .57 | .38 | .25 | .38 | .38 | AMP |
| | | | | 123.88 | 269.39 | 281.46 | 83.68 | 32.42 | 274.54 | 62.89 | 84.82 | PHASE |
| 285 | -2.58 | 3.87 | 585 | 2.11 | .61 | .93 | .75 | .78 | .36 | .25 | .25 | AMP |
| | | | | 112.61 | 278.84 | 287.37 | 188.86 | 22.96 | 258.84 | 63.28 | 98.64 | PHASE |
| 286 | -2.81 | 4.29 | 585 | 2.39 | .81 | 1.88 | .76 | .74 | .39 | .28 | .17 | AMP |
| | | | | 181.35 | 278.13 | 286.45 | 92.29 | 31.64 | 261.98 | 78.39 | 62.85 | PHASE |
| 287 | -2.91 | 4.54 | 585 | 2.56 | .85 | 1.16 | .73 | .96 | .36 | .32 | .11 | AMP |
| | | | | 96.98 | 276.98 | 284.87 | 91.73 | 18.33 | 261.58 | 66.45 | 37.17 | PHASE |
| 288 | -3.83 | 5.81 | 585 | 2.75 | .96 | 1.29 | .71 | 1.11 | .27 | .36 | .12 | AMP |
| | | | | 96.48 | 283.92 | 214.87 | 99.54 | 39.96 | 289.71 | 96.19 | 48.41 | PHASE |
| 289 | -3.25 | 5.29 | 585 | 2.85 | 1.15 | 1.22 | .99 | 1.42 | .11 | .27 | .23 | AMP |
| | | | | 88.76 | 289.36 | 286.88 | 74.15 | 42.59 | 231.28 | 82.58 | 18.11 | PHASE |

| PITCH LINK | | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|-------|--------|-------|
| RUN NO 36 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 275 | -1.63 | 12.86 | 585 | 4.87 | 5.41 | .61 | 2.87 | .58 | .18 | .53 | .88 | AMP |
| | | | | 298.48 | 123.94 | 158.15 | 217.25 | 18.96 | 327.72 | 65.17 | 382.73 | PHASE |
| 276 | -1.84 | 15.84 | 585 | 4.91 | 6.16 | 1.88 | 3.31 | .84 | .64 | .18 | .18 | AMP |
| | | | | 298.48 | 117.77 | 112.75 | 287.82 | 321.14 | 348.44 | 54.28 | 278.82 | PHASE |
| 277 | -1.66 | 16.74 | 585 | 5.92 | 6.72 | 1.63 | 3.48 | 1.19 | .88 | .71 | .28 | AMP |
| | | | | 286.77 | 118.41 | 182.93 | 212.86 | 313.85 | 358.26 | 61.89 | 279.17 | PHASE |
| 278 | -1.28 | 19.16 | 585 | 7.28 | 7.45 | 2.69 | 4.23 | 1.95 | 1.18 | .62 | .14 | AMP |
| | | | | 277.36 | 113.88 | 95.85 | 216.21 | 317.79 | 358.91 | 58.77 | 284.37 | PHASE |
| 279 | -1.91 | 15.43 | 585 | 4.98 | 5.73 | .58 | 2.89 | 1.34 | .15 | .46 | .41 | AMP |
| | | | | 384.83 | 121.39 | 257.37 | 285.88 | 353.88 | 161.68 | 43.61 | 234.92 | PHASE |
| 280 | -1.46 | 15.28 | 585 | 5.37 | 6.19 | .24 | 2.82 | 1.22 | .82 | .57 | .48 | AMP |
| | | | | 292.16 | 119.69 | 215.12 | 287.83 | 334.97 | 328.64 | 48.12 | 246.87 | PHASE |
| 281 | -1.77 | 17.22 | 585 | 6.51 | 6.85 | .79 | 3.64 | 1.97 | .58 | .62 | .53 | AMP |
| | | | | 281.79 | 118.82 | 187.81 | 285.45 | 322.88 | 353.45 | 57.63 | 242.73 | PHASE |
| 282 | -1.42 | 17.95 | 585 | 7.23 | 7.17 | 1.45 | 3.98 | 2.84 | .79 | .68 | .54 | AMP |
| | | | | 274.93 | 183.82 | 94.58 | 281.79 | 389.48 | 331.83 | 46.92 | 225.84 | PHASE |
| 283 | .84 | 18.98 | 585 | 8.12 | 7.37 | 2.89 | 4.83 | 2.27 | .96 | .62 | .46 | AMP |
| | | | | 269.99 | 98.67 | 92.76 | 197.39 | 388.68 | 325.16 | 35.88 | 218.47 | PHASE |
| 284 | -2.91 | 15.77 | 585 | 4.53 | 5.88 | 2.46 | 2.81 | 1.32 | .78 | .36 | .45 | AMP |
| | | | | 388.82 | 181.34 | 273.28 | 182.77 | 311.87 | 176.87 | 23.75 | 163.38 | PHASE |
| 285 | -2.35 | 15.66 | 585 | 5.24 | 6.28 | 1.71 | 2.18 | 1.31 | .65 | .22 | .48 | AMP |
| | | | | 288.62 | 184.65 | 275.43 | 183.23 | 385.59 | 182.85 | 53.51 | 187.94 | PHASE |
| 286 | -1.59 | 16.58 | 585 | 6.89 | 6.68 | .83 | 2.49 | 1.55 | .51 | .63 | .47 | AMP |
| | | | | 277.87 | 188.97 | 289.67 | 193.12 | 315.27 | 182.69 | 52.31 | 218.41 | PHASE |
| 287 | -1.28 | 16.88 | 585 | 6.54 | 6.56 | .56 | 2.31 | 1.48 | .47 | .62 | .54 | AMP |
| | | | | 272.12 | 97.66 | 293.28 | 183.62 | 298.81 | 285.85 | 37.19 | 221.65 | PHASE |
| 288 | -1.55 | 16.32 | 585 | 7.28 | 6.46 | .51 | 2.73 | 1.84 | .49 | .77 | .74 | AMP |
| | | | | 268.46 | 183.23 | 12.87 | 195.66 | 299.34 | 274.88 | 63.99 | 258.28 | PHASE |
| 289 | .11 | 18.15 | 585 | 8.81 | 6.77 | .88 | 3.76 | 2.65 | .65 | .39 | .86 | AMP |
| | | | | 268.27 | 98.18 | 84.86 | 195.91 | 289.38 | 286.83 | 39.37 | 248.68 | PHASE |

TABLE VI.- Continued

(f) $\mu = 0.40$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CU/SIGMA | CV/SIGMA |
|-----|-----|-----|-------|----------|----------|----------|
| 290 | 2.9 | 3.0 | - .0 | .02638 | .00256 | .00127 |
| 291 | 2.2 | 4.3 | 2.0 | .03957 | .00236 | .00145 |
| 292 | 1.2 | 5.9 | 4.0 | .05131 | .00178 | .00193 |
| 293 | 1.3 | 6.8 | 5.0 | .05624 | .00148 | .00226 |
| 294 | 1.2 | 7.7 | 6.0 | .06205 | .00109 | .00266 |
| 295 | .9 | 8.0 | 7.0 | .06951 | .00108 | .00314 |
| 296 | .4 | 8.7 | 8.0 | .07424 | .00056 | .00371 |
| 297 | 2.5 | 2.8 | 2.0 | .01661 | .00103 | .00175 |
| 298 | 1.7 | 4.5 | 4.0 | .02716 | -.00033 | .00234 |
| 299 | 1.4 | 6.1 | 6.0 | .04010 | -.00178 | .00316 |
| 300 | 1.1 | 7.7 | 8.0 | .05151 | -.00331 | .00420 |
| 301 | .8 | 8.4 | 8.9 | .05831 | -.00422 | .00466 |
| 302 | .6 | 8.7 | 9.9 | .06477 | -.00491 | .00531 |
| 303 | 2.1 | 4.4 | 6.0 | .02032 | -.00067 | .00265 |
| 304 | 1.4 | 6.3 | 8.0 | .03126 | -.00293 | .00374 |
| 305 | 1.1 | 6.9 | 9.0 | .03803 | -.00425 | .00442 |
| 306 | .7 | 7.5 | 10.0 | .04517 | -.00566 | .00518 |
| 307 | .4 | 7.9 | 11.0 | .05175 | -.00684 | .00590 |
| 308 | .1 | 8.5 | 12.0 | .05815 | -.00805 | .00671 |
| 309 | -.3 | 9.1 | 13.0 | .06471 | -.00942 | .00764 |
| 310 | 1.0 | 6.0 | 10.0 | .02300 | -.00281 | .00394 |
| 311 | .5 | 7.0 | 12.0 | .03807 | -.00707 | .00582 |
| 312 | .1 | 7.7 | 13.0 | .04451 | -.00897 | .00682 |
| 313 | -.4 | 8.6 | 14.0 | .04900 | -.01072 | .00778 |

TABLE VI.- Continued

(f) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|-------|--------|-------|---------|--------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 29# | 42.53 | 44.86 | 615 | 16.67 | 19.1# | 9.57 | 7.25 | 5.64 | 1.66 | 1.87 | 2.54 AMP |
| | | | | 148.45 | 329.69 | 76.94 | 32.99 | 138.34 | 39.34 | 251.32 | 58.16 PHASE |
| 291 | 44.9# | 42.63 | 615 | 16.8# | 19.3# | 9.26 | 6.9# | 5.47 | 1.86 | 1.28 | 2.24 AMP |
| | | | | 146.8# | 328.99 | 76.87 | 36.39 | 122.69 | 45.47 | 27# .99 | 57.32 PHASE |
| 292 | 46.94 | 41.33 | 615 | 16.96 | 19.36 | 8.7# | 6.42 | 5.97 | 2.82 | .44 | 2.28 AMP |
| | | | | 141.3# | 325.21 | 78.38 | 29.88 | 114.85 | 53.3# | 287.89 | 47.37 PHASE |
| 293 | 47.71 | 41.12 | 615 | 17.39 | 19.46 | 8.49 | 6.65 | 6.81 | 2.89 | .64 | 2.15 AMP |
| | | | | 148.76 | 326.1# | 71.78 | 33.2# | 112.92 | 61.33 | 336.52 | 61.76 PHASE |
| 294 | 48.69 | 42.26 | 615 | 17.59 | 19.81 | 8.27 | 6.89 | 6.56 | 2.32 | .46 | 1.98 AMP |
| | | | | 137.54 | 322.87 | 66.5# | 24.28 | 113.31 | 53.29 | 8.55 | 51.64 PHASE |
| 295 | 49.57 | 48.25 | 615 | 17.62 | 19.62 | 8.8# | 5.9# | 6.7# | 2.28 | .88 | 1.52 AMP |
| | | | | 136.74 | 323.35 | 78.45 | 28.13 | 112.91 | 66.82 | 16.7# | 68.73 PHASE |
| 296 | 58.32 | 41.61 | 615 | 17.88 | 19.89 | 7.6# | 5.42 | 7.95 | 2.96 | 1.73 | 2.13 AMP |
| | | | | 137.1# | 329.71 | 74.37 | 33.48 | 133.33 | 91.89 | 59.26 | 68.94 PHASE |
| 297 | 43.28 | 36.46 | 615 | 14.5# | 18.35 | 7.63 | 6.4# | 4.92 | 2.26 | 2.12 | 1.89 AMP |
| | | | | 148.82 | 331.2# | 79.52 | 38.76 | 182.53 | 6.13 | 242.68 | 53.82 PHASE |
| 298 | 45.57 | 37.28 | 615 | 14.33 | 18.4# | 7.71 | 6.81 | 4.52 | 2.83 | 1.61 | 1.59 AMP |
| | | | | 143.66 | 328.68 | 75.55 | 31.76 | 181.75 | 18.69 | 239.63 | 46.1# PHASE |
| 299 | 47.65 | 38.63 | 615 | 15.87 | 18.79 | 7.48 | 7.35 | 4.45 | 1.79 | 1.89 | 1.8# AMP |
| | | | | 144.65 | 334.63 | 81.77 | 43.38 | 128.26 | 41.13 | 276.35 | 66.25 PHASE |
| 3# | 49.72 | 38.29 | 616 | 15.62 | 18.85 | 7.22 | 7.74 | 4.17 | 2.86 | .98 | 1.61 AMP |
| | | | | 135.39 | 319.35 | 56.28 | 13.83 | 93.37 | 14.71 | 288.53 | 9.24 PHASE |
| 3#1 | 58.64 | 39.71 | 614 | 15.94 | 19.81 | 7.18 | 7.94 | 4.65 | 2.18 | 1.89 | 1.16 AMP |
| | | | | 137.34 | 326.43 | 67.98 | 29.57 | 118.65 | 33.85 | 321.9# | 44.8# PHASE |
| 3#2 | 51.58 | 39.55 | 615 | 16.87 | 18.98 | 6.83 | 7.7# | 4.28 | 2.23 | 1.62 | 1.8# AMP |
| | | | | 133.18 | 328.86 | 56.89 | 17.3# | 185.77 | 19.5# | 316.9# | 23.44 PHASE |
| 3#6 | 58.84 | 33.22 | 615 | 13.3# | 16.53 | 7.23 | 3.18 | 1.62 | 1.62 | .71 | 1.8# AMP |
| | | | | 139.64 | 327.39 | 71.76 | 24.49 | 96.11 | 34.54 | 288.9# | 56.85 PHASE |
| 3#7 | 51.88 | 32.33 | 615 | 13.47 | 16.69 | 6.25 | 7.39 | 3.4# | 1.52 | .32 | .62 AMP |
| | | | | 138.99 | 328.74 | 71.88 | 28.15 | 185.21 | 37.82 | 287.89 | 65.15 PHASE |
| 3#8 | 53.83 | 34.34 | 615 | 13.76 | 17.8# | 6.8# | 7.58 | 3.38 | 1.65 | .21 | .58 AMP |
| | | | | 134.25 | 322.94 | 61.99 | 17.71 | 185.36 | 26.84 | 292.6# | 26.8# PHASE |
| 3#9 | 54.27 | 34.74 | 615 | 13.94 | 16.99 | 5.65 | 7.68 | 3.26 | 1.88 | .33 | .81 AMP |
| | | | | 128.95 | 317.53 | 55.51 | 6.15 | 96.98 | 14.92 | 288.89 | 28.92 PHASE |
| 31# | 49.15 | 28.62 | 615 | 11.31 | 13.78 | 5.11 | 4.88 | 2.55 | 1.68 | .78 | 1.11 AMP |
| | | | | 147.18 | 332.65 | 84.94 | 31.71 | 88.68 | 59.58 | 198.72 | 241.4# PHASE |
| 311 | 51.62 | 28.53 | 615 | 11.48 | 14.38 | 5.34 | 6.19 | 2.71 | 1.78 | .83 | .21 AMP |
| | | | | 137.73 | 321.56 | 71.95 | 11.39 | 81.98 | 38.68 | 152.38 | 132.37 PHASE |
| 312 | 52.88 | 27.38 | 615 | 11.64 | 14.49 | 5.28 | 6.44 | 2.78 | 1.73 | .68 | .17 AMP |
| | | | | 137.47 | 326.25 | 79.52 | 22.12 | 98.88 | 59.68 | 169.13 | 154.19 PHASE |
| 313 | 53.94 | 27.25 | 615 | 11.82 | 14.43 | 4.59 | 6.59 | 2.67 | 1.47 | .45 | .85 AMP |
| | | | | 132.41 | 323.86 | 73.44 | 17.82 | 84.36 | 54.56 | 127.76 | 121.44 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 29# | 42.12 | 66.52 | 615 | 13.97 | 28.7# | 11.97 | 13.25 | 9.84 | 12.48 | 4.6# | .5# AMP |
| | | | | 289.73 | 154.56 | 292.58 | 135.82 | 387.51 | 175.53 | 146.27 | 198.73 PHASE |
| 291 | 48.49 | 78.4# | 615 | 18.1# | 29.87 | 18.17 | 13.36 | 11.86 | 16.72 | 7.23 | .41 AMP |
| | | | | 384.95 | 162.17 | 289.88 | 134.89 | 294.74 | 174.91 | 153.26 | 197.3# PHASE |
| 292 | 39.63 | 93.56 | 615 | 23.24 | 37.21 | 24.13 | 13.88 | 13.88 | 19.45 | 8.45 | .65 AMP |
| | | | | 313.4# | 165.13 | 288.88 | 127.32 | 272.63 | 168.79 | 146.27 | 196.32 PHASE |
| 293 | 39.36 | 188.79 | 615 | 29.33 | 42.73 | 28.3# | 14.85 | 11.65 | 22.47 | 18.78 | 1.21 AMP |
| | | | | 323.79 | 178.42 | 286.45 | 122.36 | 278.87 | 168.1# | 147.76 | 288.98 PHASE |
| 294 | 39.45 | 118.8# | 615 | 34.88 | 47.12 | 32.94 | 15.81 | 18.78 | 29.19 | 13.37 | 1.69 AMP |
| | | | | 329.52 | 171.2# | 283.11 | 118.27 | 269.66 | 166.31 | 144.56 | 215.41 PHASE |
| 295 | 38.7# | 131.76 | 615 | 48.79 | 58.32 | 35.92 | 14.73 | 18.38 | 31.36 | 15.8# | 3.19 AMP |
| | | | | 339.54 | 174.27 | 284.6# | 114.67 | 271.14 | 169.8# | 143.64 | 284.46 PHASE |
| 296 | 39.64 | 148.23 | 615 | 45.58 | 54.8# | 39.55 | 14.42 | 18.68 | 32.87 | 17.58 | 4.3# AMP |
| | | | | 347.28 | 182.76 | 291.93 | 128.64 | 294.88 | 187.92 | 163.24 | 228.12 PHASE |
| 297 | 41.98 | 68.24 | 615 | 6.79 | 24.69 | 14.7# | 9.29 | 9.9# | 15.66 | 3.17 | .18 AMP |
| | | | | 275.29 | 162.81 | 285.56 | 123.95 | 387.51 | 281.27 | 175.34 | 172.82 PHASE |
| 298 | 42.39 | 71.76 | 615 | 8.74 | 32.92 | 21.18 | 8.83 | 11.29 | 17.61 | 4.12 | .46 AMP |
| | | | | 292.29 | 169.64 | 279.32 | 121.87 | 279.11 | 195.59 | 155.69 | 239.79 PHASE |
| 299 | 43.51 | 91.58 | 615 | 15.78 | 43.25 | 27.23 | 8.72 | 12.81 | 16.66 | 6.83 | 1.49 AMP |
| | | | | 325.56 | 182.38 | 295.45 | 134.77 | 284.67 | 281.87 | 177.4# | 272.48 PHASE |
| 3# | 44.74 | 116.81 | 616 | 27.83 | 52.38 | 34.69 | 11.74 | 13.97 | 21.87 | 8.32 | 2.49 AMP |
| | | | | 336.94 | 172.58 | 273.48 | 96.69 | 246.15 | 164.83 | 131.81 | 222.26 PHASE |
| 3#1 | 44.74 | 129.24 | 614 | 33.41 | 56.35 | 38.68 | 12.26 | 12.99 | 18.17 | 15.17 | 3.85 AMP |
| | | | | 345.27 | 184.74 | 285.2# | 114.89 | 268.94 | 172.43 | 157.87 | 257.6# PHASE |
| 3#2 | 44.4# | 137.91 | 615 | 41.23 | 59.22 | 41.5# | 13.16 | 12.76 | 26.69 | 12.39 | 3.98 AMP |
| | | | | 347.88 | 188.71 | 276.18 | 98.36 | 251.42 | 161.63 | 135.11 | 232.78 PHASE |
| 3#6 | 46.41 | 188.14 | 615 | 22.71 | 53.96 | 35.18 | 8.62 | 15.87 | 19.91 | 6.88 | 2.46 AMP |
| | | | | 352.58 | 188.87 | 282.41 | 181.65 | 252.14 | 212.94 | 164.14 | 248.24 PHASE |
| 3#7 | 47.69 | 115.53 | 615 | 29.76 | 58.82 | 38.59 | 18.87 | 15.83 | 21.85 | 4.77 | 2.9# AMP |
| | | | | 357.29 | 193.75 | 283.71 | 185.76 | 258.11 | 289.62 | 165.58 | 252.75 PHASE |
| 3#8 | 48.78 | 126.26 | 615 | 39.81 | 62.61 | 43.7# | 11.85 | 13.56 | 28.61 | 18.46 | 3.86 AMP |
| | | | | .16 | 191.8# | 276.81 | 94.32 | 246.69 | 187.6# | 154.19 | 238.85 PHASE |
| 3#9 | 58.11 | 137.68 | 615 | 49.18 | 66.95 | 48.58 | 12.78 | 13.16 | 22.81 | 11.62 | 4.94 AMP |
| | | | | .86 | 188.4# | 268.58 | 84.81 | 231.94 | 175.23 | 143.31 | 222.3# PHASE |
| 31# | 42.54 | 73.93 | 615 | 2.6# | 44.84 | 23.76 | 4.82 | 11.17 | 14.95 | 1.38 | .64 AMP |
| | | | | 336.82 | 196.93 | 298.66 | 156.36 | 252.59 | 237.86 | 257.36 | 228.79 PHASE |
| 311 | 47.27 | 91.38 | 615 | 17.42 | 54.84 | 38.84 | 6.83 | 13.76 | 21.74 | 4.87 | 2.23 AMP |
| | | | | 5.8# | 192.61 | 279.57 | 184.98 | 231.54 | 289.36 | 165.64 | 227.96 PHASE |
| 312 | 49.84 | 189.48 | 615 | 26.66 | 59.15 | 35.82 | 7.65 | 15.63 | 23.64 | 5.82 | 2.85 AMP |
| | | | | 11.18 | 288.7# | 286.48 | 188.49 | 241.75 | 238.38 | 183.86 | 257.52 PHASE |
| 313 | 51.63 | 119.35 | 615 | 35.85 | 63.23 | 39.57 | 8.19 | 17.92 | 21.33 | 6.81 | 3.42 AMP |
| | | | | 7.42 | 288.61 | 282.18 | 98.96 | 234.82 | 222.86 | 165.8# | 258.24 PHASE |

TABLE VI.- Continued

(f) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 290 | 5.27 | 11.24 | 615 | 2.85 | 5.89 | 2.76 | 2.86 | 1.55 | 1.82 | .31 | .22 AMP |
| | | | | 97.74 | 288.26 | 112.82 | 342.13 | 125.83 | 342.67 | 317.75 | 37.64 PHASE |
| 291 | 4.33 | 11.83 | 615 | 3.86 | 5.48 | 2.31 | 2.85 | 1.53 | 1.83 | .17 | .29 AMP |
| | | | | 94.88 | 284.82 | 117.18 | 349.49 | 128.26 | 335.49 | 295.19 | 61.88 PHASE |
| 292 | 3.29 | 12.89 | 615 | 4.72 | 5.89 | 1.83 | 1.99 | 1.59 | 1.98 | .18 | .28 AMP |
| | | | | 91.12 | 282.17 | 128.43 | 345.79 | 118.79 | 321.15 | 228.27 | 65.68 PHASE |
| 293 | 2.66 | 13.46 | 615 | 5.35 | 6.86 | 1.57 | 2.88 | 1.64 | 1.83 | .14 | .32 AMP |
| | | | | 91.89 | 284.28 | 129.28 | 346.22 | 189.83 | 321.28 | 289.19 | 89.85 PHASE |
| 294 | 1.96 | 15.17 | 615 | 6.83 | 6.48 | 1.78 | 2.72 | 2.19 | .72 | .35 | .44 AMP |
| | | | | 85.35 | 288.23 | 149.66 | 341.75 | 188.43 | 318.49 | 176.49 | 76.16 PHASE |
| 295 | .96 | 15.21 | 615 | 7.89 | 5.96 | 1.68 | 2.95 | 2.64 | .26 | .43 | .58 AMP |
| | | | | 88.82 | 279.48 | 176.41 | 344.81 | 96.83 | 336.54 | 186.66 | 91.34 PHASE |
| 296 | -.17 | 16.46 | 615 | 7.89 | 5.81 | .78 | 3.91 | 4.86 | .76 | .78 | .96 AMP |
| | | | | 76.37 | 288.76 | 198.73 | 7.96 | 184.58 | 187.93 | 167.72 | 125.88 PHASE |
| 297 | 4.51 | 18.83 | 615 | 2.88 | 4.39 | 1.48 | 2.45 | 1.35 | .71 | .28 | .38 AMP |
| | | | | 123.76 | 293.76 | 93.74 | 336.74 | 131.81 | 336.34 | 211.41 | 73.12 PHASE |
| 298 | 3.71 | 12.22 | 615 | 3.53 | 5.16 | .96 | 2.47 | 1.59 | .52 | .23 | .36 AMP |
| | | | | 113.51 | 296.85 | 118.62 | 342.87 | 124.88 | 329.78 | 188.45 | 68.62 PHASE |
| 299 | 2.82 | 13.72 | 615 | 4.34 | 5.92 | .71 | 2.48 | 1.92 | .37 | .26 | .33 AMP |
| | | | | 111.35 | 384.59 | 139.62 | 1.58 | 141.78 | 327.61 | 192.18 | 89.27 PHASE |
| 300 | 1.72 | 15.89 | 616 | 5.47 | 6.48 | .54 | 2.61 | 2.42 | .17 | .26 | .53 AMP |
| | | | | 98.38 | 288.92 | 197.39 | 347.51 | 112.39 | 257.26 | 161.89 | 48.18 PHASE |
| 301 | 1.18 | 15.93 | 614 | 5.98 | 6.78 | .86 | 2.79 | 2.69 | .87 | .31 | .58 AMP |
| | | | | 99.23 | 294.87 | 221.92 | 3.61 | 126.45 | 178.28 | 188.42 | 66.83 PHASE |
| 302 | .56 | 16.78 | 615 | 6.76 | 6.78 | 1.38 | 3.84 | 2.98 | .43 | .41 | .59 AMP |
| | | | | 92.68 | 286.71 | 232.44 | 354.11 | 187.62 | 131.81 | 178.17 | 32.93 PHASE |
| 306 | 1.68 | 14.82 | 615 | 4.78 | 6.46 | 1.73 | 2.88 | 2.12 | .26 | .49 | .43 AMP |
| | | | | 185.44 | 381.89 | 237.37 | 14.58 | 132.66 | 193.78 | 288.86 | 89.39 PHASE |
| 307 | 1.16 | 14.59 | 615 | 5.22 | 6.61 | 1.98 | 2.86 | 2.29 | .32 | .51 | .42 AMP |
| | | | | 183.41 | 383.16 | 244.23 | 19.64 | 133.63 | 188.11 | 288.14 | 85.48 PHASE |
| 308 | .64 | 16.36 | 615 | 5.91 | 6.78 | 2.28 | 3.26 | 2.81 | .56 | .61 | .51 AMP |
| | | | | 96.32 | 295.93 | 239.36 | 18.17 | 128.88 | 155.73 | 196.68 | 51.32 PHASE |
| 309 | .83 | 17.56 | 615 | 6.73 | 6.88 | 3.82 | 3.75 | 3.15 | .94 | .68 | .68 AMP |
| | | | | 89.33 | 289.55 | 237.45 | 7.15 | 113.11 | 142.48 | 198.55 | 36.67 PHASE |
| 310 | 2.22 | 12.55 | 615 | 4.42 | 5.79 | 2.89 | 2.75 | .81 | .24 | .35 | .38 AMP |
| | | | | 138.83 | 388.18 | 258.85 | 26.87 | 163.22 | 32.56 | 245.57 | 181.65 PHASE |
| 311 | 1.39 | 15.28 | 615 | 4.88 | 6.23 | 2.82 | 3.22 | 1.58 | .38 | .66 | .42 AMP |
| | | | | 112.33 | 298.36 | 248.26 | 7.97 | 121.88 | 144.56 | 288.91 | 57.57 PHASE |
| 312 | .96 | 16.54 | 615 | 5.32 | 6.43 | 3.32 | 3.53 | 2.82 | .74 | .72 | .48 AMP |
| | | | | 189.52 | 383.84 | 258.32 | 25.58 | 141.53 | 177.98 | 233.86 | 86.79 PHASE |
| 313 | .55 | 16.83 | 615 | 5.62 | 6.61 | 3.68 | 3.47 | 2.28 | 1.88 | .59 | .48 AMP |
| | | | | 183.81 | 388.71 | 246.74 | 23.59 | 135.82 | 174.91 | 224.77 | 75.99 PHASE |

TABLE VI.- Continued

(f) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|-------|--------|--------|--------|--------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 298 | 25.92 | 47.85 | 615 | 22.61 | 23.37 | 11.84 | 5.84 | 2.51 | .63 | -.73 | .81 |
| | | | | 144.81 | 333.67 | 67.72 | 24.83 | 139.22 | 39.38 | 289.26 | 243.74 |
| 291 | 27.95 | 47.31 | 615 | 23.14 | 23.82 | 11.28 | 4.42 | 2.38 | .68 | -.79 | .88 |
| | | | | 143.17 | 333.81 | 67.45 | 27.83 | 126.77 | 44.54 | 282.83 | 247.67 |
| 292 | 29.82 | 47.11 | 615 | 23.64 | 24.11 | 11.26 | 3.83 | 2.67 | .49 | -.74 | .98 |
| | | | | 139.75 | 329.28 | 62.61 | 28.55 | 116.28 | 68.24 | 263.61 | 233.49 |
| 293 | 38.64 | 47.65 | 615 | 24.16 | 24.46 | 11.42 | 3.86 | 2.71 | .46 | -.72 | .98 |
| | | | | 139.51 | 338.17 | 65.81 | 26.71 | 113.23 | 83.81 | 267.65 | 242.69 |
| 294 | 31.62 | 48.19 | 615 | 24.45 | 25.87 | 11.88 | 3.32 | 3.21 | .52 | -.72 | .98 |
| | | | | 136.79 | 325.48 | 68.55 | 17.52 | 114.46 | 91.36 | 257.48 | 234.31 |
| 295 | 32.43 | 49.84 | 615 | 24.77 | 25.86 | 12.82 | 2.98 | 3.35 | .65 | -.77 | .96 |
| | | | | 136.71 | 327.37 | 64.16 | 24.85 | 115.37 | 124.55 | 259.88 | 243.38 |
| 296 | 33.14 | 49.67 | 615 | 25.18 | 25.71 | 11.78 | 2.46 | 4.82 | .85 | -.91 | .91 |
| | | | | 138.88 | 333.24 | 78.48 | 23.57 | 137.44 | 151.51 | 275.11 | 268.88 |
| 297 | 27.29 | 48.85 | 615 | 19.71 | 22.98 | 9.69 | 4.53 | 2.18 | .51 | .67 | .68 |
| | | | | 143.42 | 337.14 | 74.88 | 31.87 | 89.25 | 339.67 | 283.37 | 248.13 |
| 298 | 29.55 | 41.85 | 615 | 19.51 | 23.39 | 18.43 | 4.54 | 2.89 | .38 | .75 | .63 |
| | | | | 139.58 | 334.54 | 71.23 | 27.88 | 85.57 | 321.92 | 276.75 | 225.92 |
| 299 | 31.49 | 44.84 | 615 | 28.78 | 24.12 | 18.82 | 4.81 | 2.88 | .28 | .77 | .59 |
| | | | | 148.94 | 348.68 | 79.81 | 42.15 | 111.69 | 332.88 | 385.59 | 254.84 |
| 300 | 33.49 | 44.68 | 616 | 21.52 | 24.56 | 11.53 | 4.86 | 2.88 | .14 | .76 | .56 |
| | | | | 132.93 | 325.24 | 56.15 | 13.42 | 74.89 | 258.35 | 257.55 | 197.87 |
| 301 | 34.35 | 46.31 | 614 | 22.83 | 24.97 | 11.96 | 4.93 | 2.22 | .23 | .78 | .47 |
| | | | | 135.64 | 332.63 | 68.38 | 29.55 | 183.78 | 268.65 | 285.99 | 238.46 |
| 302 | 35.28 | 46.65 | 615 | 22.54 | 25.44 | 11.99 | 4.56 | 1.99 | .33 | .81 | .47 |
| | | | | 132.41 | 326.42 | 58.86 | 18.59 | 98.11 | 233.79 | 263.68 | 219.98 |
| 306 | 35.64 | 38.53 | 615 | 18.83 | 22.81 | 11.37 | 4.41 | 1.75 | .68 | .82 | .34 |
| | | | | 136.86 | 335.61 | 71.38 | 21.87 | 72.87 | 248.47 | 293.37 | 262.12 |
| 307 | 36.48 | 38.66 | 615 | 18.58 | 22.29 | 11.51 | 4.44 | 1.78 | .67 | .75 | .33 |
| | | | | 137.21 | 337.89 | 72.49 | 27.33 | 83.98 | 242.36 | 294.88 | 271.64 |
| 308 | 37.51 | 48.35 | 615 | 19.25 | 22.76 | 11.83 | 4.38 | 1.57 | .78 | .82 | .34 |
| | | | | 134.86 | 331.41 | 63.92 | 18.14 | 83.38 | 227.87 | 276.45 | 268.65 |
| 309 | 38.67 | 41.28 | 615 | 19.58 | 22.86 | 12.28 | 4.36 | 1.46 | .84 | .86 | .23 |
| | | | | 138.62 | 326.26 | 58.88 | 6.86 | 72.74 | 219.61 | 263.25 | 219.61 |
| 310 | 35.12 | 33.47 | 615 | 14.35 | 18.74 | 9.13 | 2.68 | 1.83 | .68 | .78 | .12 |
| | | | | 142.45 | 343.58 | 85.23 | 26.63 | 77.86 | 264.63 | 324.96 | 348.81 |
| 311 | 37.24 | 34.85 | 615 | 15.16 | 19.89 | 18.41 | 3.56 | 1.88 | .88 | .69 | .24 |
| | | | | 136.48 | 332.98 | 71.21 | 8.26 | 68.88 | 217.16 | 289.89 | 299.65 |
| 312 | 38.48 | 35.26 | 615 | 15.64 | 28.86 | 18.86 | 3.59 | 1.83 | .84 | .72 | .24 |
| | | | | 138.32 | 338.25 | 79.67 | 18.19 | 75.29 | 237.56 | 388.34 | 341.81 |
| 313 | 39.58 | 34.83 | 615 | 15.95 | 28.88 | 18.87 | 3.65 | 1.88 | 1.12 | .67 | .24 |
| | | | | 135.85 | 335.49 | 75.35 | 14.83 | 68.37 | 226.28 | 297.83 | 331.57 |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 298 | 24.41 | 68.28 | 615 | 15.37 | 17.32 | 9.48 | 16.76 | 15.88 | 17.77 | 8.78 | 2.87 |
| | | | | 297.33 | 151.83 | 323.57 | 135.98 | 297.89 | 175.69 | 164.92 | 235.68 |
| 291 | 22.69 | 83.71 | 615 | 18.91 | 23.92 | 14.72 | 17.91 | 16.98 | 24.27 | 12.47 | 1.97 |
| | | | | 389.64 | 161.82 | 317.79 | 133.63 | 297.88 | 172.96 | 167.19 | 245.77 |
| 292 | 21.15 | 99.98 | 615 | 23.22 | 38.79 | 19.58 | 19.76 | 17.11 | 38.79 | 16.49 | 1.95 |
| | | | | 317.14 | 165.88 | 318.78 | 126.27 | 268.39 | 162.57 | 157.85 | 241.28 |
| 293 | 28.27 | 113.23 | 615 | 28.87 | 35.25 | 23.17 | 28.48 | 17.48 | 34.31 | 17.96 | 2.49 |
| | | | | 325.58 | 171.57 | 313.16 | 122.94 | 273.56 | 166.79 | 156.97 | 239.95 |
| 294 | 19.73 | 119.92 | 615 | 31.86 | 39.28 | 27.55 | 21.92 | 15.95 | 45.46 | 22.81 | 2.76 |
| | | | | 338.51 | 172.46 | 389.31 | 119.76 | 262.95 | 166.29 | 152.59 | 231.82 |
| 295 | 18.55 | 128.57 | 615 | 37.48 | 42.82 | 38.54 | 21.99 | 14.91 | 49.47 | 23.31 | 3.98 |
| | | | | 339.32 | 176.85 | 318.48 | 116.97 | 263.11 | 178.78 | 151.88 | 223.43 |
| 296 | 18.74 | 133.87 | 615 | 41.88 | 47.26 | 34.34 | 21.35 | 15.46 | 52.84 | 27.24 | 5.87 |
| | | | | 345.95 | 184.92 | 316.73 | 125.18 | 283.77 | 189.72 | 171.82 | 231.41 |
| 297 | 23.81 | 67.22 | 615 | 8.64 | 18.76 | 9.81 | 11.92 | 15.14 | 24.49 | 6.65 | .65 |
| | | | | 298.12 | 158.48 | 389.67 | 125.93 | 383.76 | 281.62 | 288.22 | 289.14 |
| 298 | 24.81 | 71.27 | 615 | 18.24 | 24.98 | 13.65 | 11.92 | 16.52 | 26.87 | 6.55 | .78 |
| | | | | 299.88 | 167.42 | 382.18 | 122.79 | 279.89 | 196.87 | 189.85 | 243.48 |
| 299 | 24.15 | 86.82 | 615 | 15.72 | 33.33 | 28.88 | 13.23 | 18.51 | 25.62 | 9.32 | .94 |
| | | | | 325.51 | 182.42 | 319.68 | 135.84 | 286.38 | 282.52 | 288.42 | 298.85 |
| 300 | 24.14 | 183.78 | 616 | 24.38 | 41.26 | 26.23 | 17.47 | 19.66 | 32.88 | 12.38 | 1.98 |
| | | | | 334.72 | 173.87 | 298.58 | 188.55 | 247.46 | 165.67 | 146.24 | 234.37 |
| 301 | 23.83 | 114.79 | 614 | 29.44 | 45.83 | 29.59 | 18.44 | 18.81 | 35.98 | 14.66 | 2.33 |
| | | | | 343.18 | 186.87 | 318.82 | 118.27 | 267.89 | 184.81 | 168.35 | 288.24 |
| 302 | 23.86 | 126.47 | 615 | 35.38 | 48.22 | 32.39 | 19.69 | 17.41 | 42.48 | 17.44 | 3.36 |
| | | | | 345.36 | 182.34 | 381.59 | 182.85 | 249.28 | 163.65 | 143.16 | 247.53 |
| 306 | 25.94 | 89.93 | 615 | 18.94 | 41.67 | 24.55 | 12.56 | 19.21 | 32.47 | 8.29 | 1.15 |
| | | | | 348.72 | 198.58 | 305.88 | 189.82 | 253.56 | 332.63 | 187.19 | 257.65 |
| 307 | 26.42 | 98.76 | 615 | 24.22 | 45.57 | 27.43 | 11.59 | 19.95 | 31.31 | 18.63 | 1.31 |
| | | | | 353.56 | 195.48 | 386.68 | 112.22 | 258.25 | 218.65 | 179.38 | 284.65 |
| 308 | 26.72 | 115.48 | 615 | 31.21 | 49.88 | 31.76 | 17.28 | 17.18 | 34.76 | 14.93 | 2.28 |
| | | | | 356.68 | 192.69 | 299.82 | 188.58 | 245.34 | 189.98 | 163.95 | 268.89 |
| 309 | 27.32 | 122.81 | 615 | 38.85 | 54.24 | 35.78 | 18.54 | 16.14 | 37.16 | 16.58 | 3.29 |
| | | | | 357.32 | 198.86 | 291.68 | 98.84 | 228.76 | 178.84 | 153.24 | 237.37 |
| 310 | 23.86 | 69.26 | 615 | 3.83 | 32.74 | 15.26 | 7.63 | 13.25 | 24.93 | 5.22 | 1.86 |
| | | | | 342.22 | 199.76 | 326.95 | 158.88 | 254.77 | 241.63 | 299.31 | 186.55 |
| 311 | 27.32 | 82.99 | 615 | 13.14 | 41.83 | 28.38 | 9.32 | 16.88 | 36.24 | 4.77 | .82 |
| | | | | 14.46 | 195.41 | 384.73 | 112.82 | 228.53 | 218.48 | 388.75 | 388.39 |
| 312 | 29.13 | 97.44 | 615 | 19.72 | 45.96 | 24.25 | 18.82 | 18.84 | 39.88 | 7.19 | 1.16 |
| | | | | 7.86 | 283.84 | 389.96 | 114.74 | 237.71 | 231.82 | 288.44 | 389.74 |
| 313 | 38.24 | 186.68 | 615 | 25.83 | 49.79 | 27.59 | 11.68 | 28.72 | 36.72 | 8.61 | 1.94 |
| | | | | 5.12 | 282.94 | 384.74 | 185.37 | 238.41 | 222.53 | 174.58 | 294.33 |

TABLE VI.- Continued

(f) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------|
| | RUN NO | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 290 | 3.84 | 8.72 | 615 | 2.58 | 3.47 | 2.37 | 1.48 | .96 | .74 | .39 | .11 |
| | | | | 51.81 | 257.45 | 186.88 | 382.11 | 78.62 | 298.95 | 385.11 | 319.88 |
| 291 | 2.92 | 9.87 | 615 | 3.42 | 3.61 | 2.18 | 1.52 | .93 | .79 | .27 | .14 |
| | | | | 56.48 | 265.49 | 115.83 | 311.43 | 72.84 | 282.78 | 328.84 | 355.46 |
| 292 | 1.94 | 9.84 | 615 | 4.12 | 3.82 | 1.91 | 1.54 | .96 | .82 | .19 | .11 |
| | | | | 56.35 | 264.82 | 125.81 | 388.63 | 63.16 | 268.84 | 338.53 | 4.55 |
| 293 | 1.37 | 18.39 | 615 | 4.61 | 3.87 | 1.84 | 1.59 | 1.82 | .73 | .15 | .13 |
| | | | | 58.22 | 267.91 | 136.38 | 388.96 | 61.93 | 267.26 | 3.77 | 48.24 |
| 294 | .75 | 11.71 | 615 | 5.24 | 4.88 | 2.29 | 2.24 | 1.45 | .78 | .22 | .16 |
| | | | | 54.66 | 264.76 | 146.68 | 388.14 | 63.95 | 262.28 | 56.23 | 28.58 |
| 295 | -.19 | 12.83 | 615 | 6.29 | 3.53 | 2.53 | 2.55 | 1.91 | .34 | .26 | .19 |
| | | | | 52.11 | 264.52 | 165.94 | 312.59 | 51.58 | 269.33 | 96.35 | 32.68 |
| 296 | -1.25 | 12.44 | 615 | 7.19 | 3.21 | 1.97 | 3.44 | 3.16 | .48 | .59 | .48 |
| | | | | 49.28 | 277.51 | 182.81 | 337.88 | 61.63 | 59.26 | 185.24 | 69.48 |
| 297 | 3.83 | 6.68 | 615 | 2.81 | 2.74 | 1.19 | 1.95 | .72 | .46 | .85 | .23 |
| | | | | 78.49 | 275.25 | 181.69 | 296.79 | 92.89 | 279.72 | 261.56 | 19.43 |
| 298 | 2.27 | 7.48 | 615 | 2.74 | 3.36 | 1.81 | 1.98 | .91 | .33 | .85 | .28 |
| | | | | 69.15 | 288.82 | 128.96 | 382.56 | 82.71 | 268.16 | 8.74 | 21.51 |
| 299 | 1.48 | 8.64 | 615 | 3.52 | 3.91 | 1.87 | 1.82 | 1.22 | .38 | .12 | .15 |
| | | | | 71.62 | 289.77 | 158.18 | 321.75 | 98.61 | 258.27 | 57.28 | 44.33 |
| 300 | .37 | 9.88 | 616 | 4.59 | 4.28 | 1.35 | 1.99 | 1.71 | .28 | .12 | .26 |
| | | | | 64.48 | 275.48 | 169.28 | 318.44 | 78.28 | 187.85 | 21.19 | 348.66 |
| 301 | -.13 | 18.83 | 614 | 5.85 | 4.48 | 1.66 | 2.18 | 1.97 | .23 | .19 | .23 |
| | | | | 67.24 | 281.71 | 187.25 | 326.94 | 82.84 | 187.87 | 59.82 | 18.68 |
| 302 | -.76 | 11.52 | 615 | 5.84 | 4.39 | 1.99 | 2.47 | 2.31 | .48 | .19 | .28 |
| | | | | 62.97 | 273.39 | 189.13 | 318.34 | 63.98 | 127.36 | 78.38 | 334.48 |
| 305 | .18 | 9.83 | 615 | 4.14 | 4.53 | 2.83 | 2.85 | 1.45 | .29 | .28 | .25 |
| | | | | 68.81 | 289.88 | 283.98 | 342.16 | 92.15 | 157.19 | 175.96 | 33.99 |
| 307 | -.27 | 18.49 | 615 | 4.59 | 4.68 | 2.17 | 2.85 | 1.62 | .32 | .28 | .23 |
| | | | | 69.25 | 298.78 | 288.98 | 347.28 | 91.78 | 154.33 | 162.81 | 32.89 |
| 308 | -.76 | 11.39 | 615 | 5.29 | 4.68 | 2.58 | 2.42 | 2.18 | .49 | .27 | .28 |
| | | | | 65.21 | 283.32 | 283.78 | 337.71 | 78.18 | 138.55 | 152.98 | .19 |
| 309 | -1.38 | 12.16 | 615 | 6.12 | 4.71 | 3.18 | 2.86 | 2.41 | .88 | .33 | .36 |
| | | | | 61.42 | 276.82 | 282.54 | 335.51 | 78.45 | 112.72 | 168.59 | 346.38 |
| 310 | .79 | 8.28 | 615 | 3.13 | 4.18 | 2.15 | 2.85 | .42 | .18 | .21 | .18 |
| | | | | 92.84 | 297.57 | 223.53 | 352.53 | 131.78 | 331.71 | 219.26 | 42.83 |
| 311 | -.81 | 9.92 | 615 | 3.91 | 4.53 | 2.78 | 2.32 | 1.86 | .38 | .43 | .25 |
| | | | | 77.86 | 287.73 | 287.94 | 335.85 | 79.86 | 114.34 | 172.66 | 352.49 |
| 312 | -.44 | 11.89 | 615 | 4.47 | 4.68 | 3.19 | 2.58 | 1.48 | .59 | .48 | .38 |
| | | | | 76.76 | 293.11 | 218.68 | 354.48 | 181.95 | 141.56 | 196.46 | 23.74 |
| 313 | -.84 | 11.26 | 615 | 4.85 | 4.79 | 3.46 | 2.56 | 1.54 | .78 | .48 | .31 |
| | | | | 73.16 | 289.35 | 215.89 | 353.58 | 95.18 | 138.36 | 198.39 | 19.51 |

TABLE VI.- Continued

(f) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 290 | 12.82 | 55.28 | 615 | 26.39 | 27.97 | 13.96 | .99 | 2.49 | 1.72 | 1.48 | 2.95 |
| | | | | 148.51 | 334.16 | 53.76 | 11.54 | 296.48 | 211.98 | 69.54 | 231.55 |
| 291 | 15.89 | 54.87 | 615 | 27.33 | 28.71 | 14.66 | .97 | 2.26 | 1.46 | 1.88 | 2.52 |
| | | | | 138.83 | 333.86 | 54.92 | 355.84 | 291.19 | 211.32 | 87.83 | 231.12 |
| 292 | 17.88 | 55.63 | 615 | 28.29 | 29.16 | 15.89 | .94 | 2.23 | 1.24 | .35 | 2.41 |
| | | | | 135.82 | 338.43 | 51.38 | 335.32 | 281.21 | 288.96 | 112.88 | 228.88 |
| 293 | 17.99 | 57.79 | 615 | 28.92 | 29.71 | 15.49 | .94 | 2.38 | 1.23 | .53 | 2.26 |
| | | | | 135.68 | 331.48 | 54.15 | 335.89 | 288.43 | 216.61 | 166.48 | 233.62 |
| 294 | 18.91 | 58.44 | 615 | 29.28 | 30.57 | 16.33 | .92 | 2.36 | 1.17 | .34 | 2.88 |
| | | | | 133.21 | 327.83 | 49.97 | 315.17 | 278.38 | 211.15 | 288.52 | 223.81 |
| 295 | 19.64 | 59.93 | 615 | 29.62 | 30.55 | 16.66 | .87 | 2.51 | .98 | .71 | 1.51 |
| | | | | 133.13 | 328.75 | 53.47 | 386.62 | 274.96 | 223.51 | 284.78 | 233.66 |
| 296 | 28.25 | 68.81 | 615 | 38.83 | 31.53 | 16.41 | 1.47 | 3.21 | 1.45 | 1.77 | 2.24 |
| | | | | 134.48 | 334.52 | 68.68 | 288.58 | 287.85 | 255.75 | 243.64 | 243.66 |
| 297 | 14.57 | 51.85 | 615 | 23.76 | 28.17 | 12.24 | 1.18 | 2.31 | 1.83 | 1.89 | 1.97 |
| | | | | 137.41 | 338.54 | 68.81 | 33.24 | 381.79 | 186.83 | 56.78 | 227.38 |
| 298 | 17.81 | 58.74 | 615 | 24.82 | 28.98 | 13.59 | .92 | 1.98 | 1.48 | 1.43 | 1.59 |
| | | | | 134.28 | 335.81 | 59.41 | 9.91 | 381.23 | 185.22 | 68.85 | 222.98 |
| 299 | 19.86 | 53.12 | 616 | 25.45 | 29.96 | 14.35 | .98 | 1.87 | 1.23 | .86 | 1.75 |
| | | | | 136.89 | 342.84 | 69.93 | 16.87 | 321.28 | 214.99 | 82.84 | 244.98 |
| 300 | 21.25 | 55.85 | 616 | 26.58 | 30.81 | 16.81 | 1.15 | 1.69 | 1.28 | .68 | 1.68 |
| | | | | 128.41 | 326.46 | 49.18 | 329.54 | 285.67 | 189.89 | 187.81 | 188.28 |
| 301 | 22.14 | 57.83 | 614 | 27.22 | 31.83 | 16.78 | 1.15 | 1.78 | 1.49 | .83 | 1.25 |
| | | | | 131.43 | 333.79 | 62.18 | 339.93 | 388.46 | 287.54 | 149.15 | 219.78 |
| 302 | 22.89 | 59.27 | 615 | 27.96 | 31.29 | 17.88 | 1.86 | 1.64 | 1.45 | 1.35 | 1.89 |
| | | | | 128.41 | 327.48 | 53.69 | 319.23 | 283.88 | 196.62 | 141.88 | 197.95 |
| 306 | 24.14 | 48.39 | 615 | 22.61 | 27.41 | 15.82 | 1.16 | 1.49 | 1.38 | .57 | .81 |
| | | | | 131.52 | 335.45 | 64.74 | 313.63 | 388.84 | 217.28 | 8.84 | 224.77 |
| 307 | 25.85 | 58.17 | 615 | 23.35 | 27.76 | 16.38 | 1.14 | 1.45 | 1.31 | .31 | .73 |
| | | | | 131.96 | 336.81 | 57.35 | 315.68 | 389.16 | 219.38 | 352.42 | 231.78 |
| 308 | 26.84 | 51.94 | 615 | 24.33 | 28.42 | 17.29 | 1.86 | 1.54 | 1.46 | .86 | .76 |
| | | | | 129.31 | 331.52 | 59.94 | 298.31 | 299.57 | 211.11 | 187.77 | 281.78 |
| 309 | 27.27 | 54.47 | 615 | 24.91 | 28.72 | 18.22 | 1.22 | 1.45 | 1.61 | .13 | .94 |
| | | | | 126.19 | 326.33 | 54.63 | 285.83 | 292.42 | 284.96 | 145.81 | 194.84 |
| 310 | 24.34 | 48.39 | 615 | 17.52 | 23.47 | 12.38 | 1.85 | .77 | 1.35 | .76 | .87 |
| | | | | 136.25 | 343.47 | 77.15 | 283.29 | 343.25 | 231.42 | 3.44 | 138.91 |
| 311 | 26.62 | 43.97 | 615 | 19.17 | 24.66 | 14.48 | 1.82 | 1.33 | 1.33 | .84 | .82 |
| | | | | 138.51 | 333.27 | 64.69 | 278.93 | 312.48 | 285.64 | 321.79 | 338.59 |
| 312 | 27.91 | 44.99 | 615 | 19.91 | 24.86 | 15.48 | 1.18 | 1.85 | 1.42 | .73 | .86 |
| | | | | 133.81 | 338.46 | 73.67 | 278.98 | 338.74 | 231.28 | 335.38 | 287.84 |
| 313 | 29.15 | 44.99 | 615 | 28.43 | 24.78 | 15.77 | 1.19 | 1.12 | 1.28 | .63 | .15 |
| | | | | 131.15 | 335.68 | 78.26 | 273.45 | 322.23 | 225.88 | 381.94 | 181.86 |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 290 | 38.16 | 66.85 | 615 | 14.46 | 12.58 | 8.24 | 17.28 | 17.82 | 28.18 | 12.38 | 2.83 |
| | | | | 383.64 | 153.93 | 358.72 | 139.62 | 294.79 | 188.48 | 172.86 | 241.82 |
| 291 | 36.43 | 79.38 | 615 | 17.67 | 17.89 | 12.43 | 18.69 | 28.16 | 27.48 | 17.81 | 2.78 |
| | | | | 314.88 | 165.71 | 345.25 | 135.71 | 283.98 | 176.86 | 174.78 | 267.89 |
| 292 | 34.98 | 89.28 | 615 | 21.56 | 23.66 | 17.82 | 28.69 | 28.92 | 35.23 | 22.11 | 2.71 |
| | | | | 321.16 | 171.34 | 333.95 | 126.47 | 263.86 | 166.62 | 165.69 | 266.46 |
| 293 | 33.78 | 184.28 | 615 | 25.45 | 27.53 | 28.37 | 21.57 | 21.18 | 39.38 | 23.97 | 2.95 |
| | | | | 328.68 | 176.85 | 334.19 | 122.68 | 267.59 | 178.31 | 166.26 | 265.38 |
| 294 | 32.57 | 115.78 | 615 | 28.61 | 38.94 | 24.88 | 22.94 | 28.88 | 52.98 | 28.93 | 2.68 |
| | | | | 333.38 | 177.31 | 328.88 | 119.63 | 254.42 | 178.81 | 162.19 | 256.23 |
| 295 | 38.93 | 121.73 | 615 | 33.77 | 34.86 | 28.15 | 23.46 | 19.41 | 57.46 | 29.78 | 3.29 |
| | | | | 341.87 | 188.89 | 326.91 | 115.72 | 252.23 | 174.53 | 161.83 | 245.58 |
| 296 | 38.78 | 133.38 | 615 | 36.85 | 39.95 | 32.63 | 22.82 | 28.54 | 68.48 | 34.53 | 4.39 |
| | | | | 349.92 | 188.74 | 331.17 | 122.95 | 278.96 | 193.63 | 181.99 | 242.77 |
| 297 | 37.59 | 72.37 | 615 | 8.42 | 13.81 | 6.49 | 12.16 | 18.49 | 29.78 | 9.83 | .87 |
| | | | | 382.92 | 162.83 | 352.64 | 129.35 | 382.53 | 285.56 | 215.73 | 193.73 |
| 298 | 37.54 | 74.61 | 615 | 9.91 | 19.85 | 18.19 | 12.35 | 19.97 | 32.59 | 9.43 | .48 |
| | | | | 389.73 | 172.74 | 335.85 | 124.94 | 278.71 | 288.26 | 281.36 | 262.84 |
| 299 | 37.44 | 89.89 | 615 | 14.74 | 26.89 | 16.92 | 14.85 | 22.89 | 38.79 | 12.89 | .96 |
| | | | | 329.89 | 187.99 | 344.73 | 135.73 | 285.93 | 287.51 | 218.84 | 349.17 |
| 300 | 36.87 | 181.59 | 616 | 21.99 | 32.88 | 23.18 | 18.82 | 23.51 | 39.22 | 16.68 | 1.55 |
| | | | | 336.95 | 179.76 | 321.64 | 99.83 | 244.83 | 178.31 | 156.18 | 282.81 |
| 301 | 36.33 | 114.12 | 614 | 25.68 | 36.28 | 26.33 | 28.11 | 21.68 | 42.67 | 19.31 | 2.28 |
| | | | | 344.97 | 191.61 | 331.63 | 117.17 | 263.43 | 189.88 | 178.67 | 332.83 |
| 302 | 35.59 | 122.53 | 615 | 38.91 | 39.28 | 29.76 | 21.65 | 21.89 | 58.28 | 22.57 | 2.68 |
| | | | | 346.61 | 187.84 | 322.28 | 182.86 | 245.83 | 167.75 | 158.81 | 292.88 |
| 306 | 39.69 | 86.64 | 615 | 17.87 | 34.42 | 21.45 | 22.44 | 48.43 | 48.43 | 18.44 | .46 |
| | | | | 358.88 | 196.88 | 338.85 | 189.68 | 253.39 | 217.59 | 199.52 | 1.38 |
| 307 | 39.98 | 97.13 | 615 | 21.36 | 37.82 | 23.97 | 16.28 | 22.85 | 38.78 | 13.19 | 1.34 |
| | | | | 354.25 | 288.61 | 338.36 | 112.88 | 256.95 | 215.81 | 189.37 | 7.74 |
| 308 | 39.88 | 112.87 | 615 | 27.12 | 41.65 | 28.38 | 19.41 | 28.28 | 42.69 | 18.68 | 1.61 |
| | | | | 356.62 | 197.56 | 321.27 | 181.59 | 241.99 | 194.24 | 172.34 | 318.99 |
| 309 | 48.16 | 118.88 | 615 | 33.44 | 45.53 | 32.14 | 21.82 | 19.45 | 28.48 | 2.13 | 2.13 |
| | | | | 356.39 | 194.78 | 321.45 | 95.87 | 223.73 | 182.71 | 162.86 | 273.56 |
| 310 | 38.85 | 71.87 | 615 | 3.58 | 27.33 | 14.38 | 8.75 | 15.17 | 31.78 | 8.18 | 2.18 |
| | | | | 354.88 | 286.38 | 358.74 | 158.95 | 257.11 | 245.63 | 387.83 | 94.24 |
| 311 | 41.42 | 89.84 | 615 | 11.88 | 35.79 | 18.36 | 18.18 | 18.29 | 45.63 | 6.41 | 1.77 |
| | | | | 3.24 | 281.84 | 333.86 | 114.87 | 229.33 | 213.79 | 228.24 | 16.98 |
| 312 | 42.67 | 181.45 | 615 | 17.18 | 39.42 | 21.57 | 12.23 | 28.78 | 58.17 | 8.52 | 1.78 |
| | | | | 8.14 | 288.48 | 336.18 | 117.92 | 237.48 | 234.58 | 214.69 | 37.48 |
| 313 | 43.26 | 187.59 | 615 | 21.98 | 43.86 | 24.73 | 13.32 | 23.83 | 46.58 | 9.79 | 1.92 |
| | | | | 5.38 | 287.88 | 328.67 | 189.68 | 229.58 | 226.12 | 184.38 | 356.78 |

TABLE VI.- Continued

(f) Continued

| TORSION 50 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 290 | .50 | 6.76 | 615 | 2.29 | 2.50 | 1.73 | .87 | .41 | .42 | .61 | .09 AMP |
| 291 | -.15 | 6.65 | 615 | 64.50 | 276.16 | 121.64 | 331.02 | 83.33 | 307.84 | 356.18 | 269.95 PHASE |
| 292 | -.85 | 7.36 | 615 | 2.95 | 2.66 | 1.59 | .91 | .46 | .51 | .56 | .06 AMP |
| 293 | -1.26 | 7.82 | 615 | 66.33 | 285.25 | 129.22 | 338.51 | 64.36 | 292.80 | 6.63 | 233.94 PHASE |
| 294 | -1.69 | 8.82 | 615 | 3.48 | 2.83 | 1.50 | .93 | .57 | .62 | .50 | .15 AMP |
| 295 | -2.37 | 8.94 | 615 | 64.52 | 285.54 | 137.06 | 333.93 | 52.75 | 280.23 | 4.31 | 208.81 PHASE |
| 296 | -3.17 | 9.45 | 615 | 3.84 | 2.87 | 1.49 | .96 | .68 | .58 | .48 | .22 AMP |
| 297 | -.00 | 5.02 | 615 | 65.10 | 289.36 | 147.18 | 334.26 | 52.60 | 276.28 | 15.68 | 198.50 PHASE |
| 298 | -.58 | 5.76 | 615 | 4.26 | 3.01 | 1.83 | 1.44 | .97 | .58 | .44 | .23 AMP |
| 299 | -1.21 | 6.66 | 615 | 60.91 | 286.54 | 155.71 | 334.61 | 63.33 | 272.55 | 28.07 | 205.95 PHASE |
| 300 | -1.97 | 7.51 | 616 | 4.86 | 2.65 | 2.07 | 1.64 | 1.48 | .26 | .26 | .23 AMP |
| 301 | -2.33 | 8.22 | 614 | 58.51 | 291.63 | 171.87 | 336.04 | 55.14 | 270.55 | 52.34 | 233.55 PHASE |
| 302 | -2.94 | 8.60 | 615 | 5.37 | 2.60 | 1.75 | 2.32 | 2.51 | .37 | .41 | .16 AMP |
| 303 | -2.38 | 7.75 | 615 | 54.34 | 309.93 | 179.11 | 3.97 | 74.17 | 120.28 | 115.40 | 183.19 PHASE |
| 304 | -2.65 | 8.15 | 615 | 2.06 | 2.08 | .99 | 1.22 | .24 | .22 | .30 | .01 AMP |
| 305 | -3.41 | 9.56 | 615 | 75.35 | 297.30 | 114.69 | 320.99 | 100.43 | 286.49 | 7.26 | 8.74 PHASE |
| 306 | -1.92 | 6.79 | 615 | 2.66 | 2.57 | .87 | 1.16 | .41 | .16 | .31 | .04 AMP |
| 307 | -2.51 | 7.85 | 615 | 73.08 | 299.65 | 133.38 | 327.52 | 84.76 | 266.75 | 7.78 | 162.63 PHASE |
| 308 | -2.84 | 8.70 | 615 | 3.24 | 2.99 | .90 | 1.11 | .67 | .24 | .34 | .07 AMP |
| 309 | -3.13 | 9.23 | 615 | 74.71 | 307.44 | 154.52 | 345.75 | 102.04 | 256.76 | 36.45 | 207.00 PHASE |
| 310 | -1.92 | 6.79 | 615 | 3.96 | 3.28 | 1.83 | 1.22 | 1.02 | .34 | .35 | .03 AMP |
| 311 | -2.51 | 7.85 | 615 | 67.87 | 294.06 | 162.26 | 337.06 | 79.21 | 199.74 | 358.61 | 76.56 PHASE |
| 312 | -2.84 | 8.70 | 615 | 4.25 | 3.36 | 1.22 | 1.38 | 1.31 | .33 | .39 | .05 AMP |
| 313 | -3.13 | 9.23 | 615 | 70.79 | 301.49 | 182.14 | 353.22 | 91.66 | 212.46 | 40.57 | 283.97 PHASE |
| 314 | -1.92 | 6.79 | 615 | 4.72 | 3.36 | 1.47 | 1.65 | 1.66 | .46 | .29 | .15 AMP |
| 315 | -2.38 | 7.75 | 615 | 67.03 | 295.34 | 185.29 | 344.55 | 75.01 | 167.37 | 27.47 | 293.03 PHASE |
| 316 | -2.65 | 8.15 | 615 | 3.82 | 3.56 | 1.29 | 1.27 | .90 | .32 | .15 | .08 AMP |
| 317 | -3.00 | 8.83 | 615 | 70.68 | 305.94 | 204.59 | 100.09 | 97.10 | 170.50 | 313.64 | 44.72 PHASE |
| 318 | -3.41 | 9.56 | 615 | 4.12 | 3.66 | 1.38 | 1.27 | 1.09 | .33 | .10 | .06 AMP |
| 319 | -1.92 | 6.79 | 615 | 71.47 | 308.07 | 209.54 | 14.83 | 97.49 | 173.57 | 335.62 | 355.96 PHASE |
| 320 | -2.51 | 7.85 | 615 | 4.54 | 3.79 | 1.58 | 1.55 | 1.53 | .49 | .04 | .11 AMP |
| 321 | -2.84 | 8.70 | 615 | 68.09 | 302.13 | 204.17 | 4.05 | 87.67 | 154.98 | 263.63 | 326.44 PHASE |
| 322 | -3.13 | 9.23 | 615 | 5.03 | 3.89 | 1.95 | 1.90 | 1.78 | .73 | .16 | .15 AMP |
| 323 | -1.92 | 6.79 | 615 | 65.45 | 297.23 | 204.27 | 1.30 | 81.06 | 138.41 | 251.33 | 339.07 PHASE |
| 324 | -2.51 | 7.85 | 615 | 2.97 | 3.27 | 1.40 | 1.32 | .06 | .17 | .18 | .17 AMP |
| 325 | -2.84 | 8.70 | 615 | 85.20 | 316.24 | 226.43 | 15.29 | 60.81 | 18.74 | 317.69 | 45.90 PHASE |
| 326 | -3.13 | 9.23 | 615 | 3.61 | 3.61 | 1.77 | 1.44 | .69 | .30 | .31 | .23 AMP |
| 327 | -1.92 | 6.79 | 615 | 74.14 | 305.44 | 212.36 | 1.03 | 76.39 | 134.62 | 237.09 | 348.30 PHASE |
| 328 | -2.51 | 7.85 | 615 | 4.04 | 3.78 | 1.98 | 1.64 | .92 | .53 | .37 | .26 AMP |
| 329 | -2.84 | 8.70 | 615 | 75.01 | 310.64 | 224.08 | 21.14 | 105.17 | 161.17 | 257.06 | 24.72 PHASE |
| 330 | -3.13 | 9.23 | 615 | 4.33 | 3.92 | 2.14 | 1.60 | 1.07 | .69 | .35 | .26 AMP |
| 331 | -1.92 | 6.79 | 615 | 72.32 | 307.24 | 221.61 | 21.89 | 98.33 | 157.55 | 259.59 | 21.39 PHASE |

TABLE VI.- Continued

(f) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 298 | -5.13 | 48.39 | 615 | 24.68 141.86 | 24.63 331.23 | 13.32 31.26 | 4.97 227.86 | 4.44 296.99 | 2.27 31.97 | 2.89 384.95 | 3.17 33.12 AMP |
| 291 | -2.68 | 48.69 | 615 | 25.18 143.88 | 25.67 332.25 | 13.52 38.14 | 4.49 233.77 | 4.84 287.97 | 1.71 21.38 | 1.99 328.27 | 3.83 31.75 PHASE |
| 292 | -2.25 | 58.68 | 615 | 25.95 142.81 | 26.48 338.11 | 13.78 25.58 | 4.87 228.73 | 5.67 279.15 | 1.48 353.67 | 1.78 326.19 | 2.85 19.45 PHASE |
| 293 | .77 | 52.25 | 615 | 26.35 143.84 | 27.38 331.49 | 14.13 26.98 | 4.88 234.26 | 5.89 279.26 | 1.33 351.75 | 1.78 338.14 | 2.53 33.48 PHASE |
| 294 | 1.84 | 53.34 | 615 | 26.96 142.13 | 28.22 329.12 | 14.57 22.14 | 3.74 227.72 | 6.67 278.99 | 1.31 338.92 | 1.43 333.81 | 2.26 28.95 PHASE |
| 295 | 3.86 | 54.59 | 615 | 27.28 143.38 | 28.31 338.64 | 14.68 25.49 | 3.54 248.66 | 7.38 282.92 | 1.59 319.82 | 1.62 341.98 | 1.69 26.36 PHASE |
| 296 | 3.69 | 54.83 | 615 | 27.42 145.91 | 29.63 337.14 | 14.98 38.82 | 3.48 268.18 | 8.58 384.86 | 1.76 345.63 | 2.26 34.91 | 2.67 46.23 PHASE |
| 297 | -2.95 | 47.76 | 615 | 23.45 139.18 | 24.46 335.81 | 18.25 33.78 | 5.75 218.38 | 4.57 256.58 | 1.73 13.55 | 2.11 259.37 | 1.69 32.38 PHASE |
| 298 | -.62 | 48.56 | 615 | 23.54 139.88 | 25.25 334.11 | 18.68 32.63 | 5.69 214.86 | 5.82 256.61 | 1.14 5.68 | 1.62 247.33 | 1.46 38.65 PHASE |
| 299 | 1.48 | 58.93 | 615 | 24.98 143.28 | 26.58 342.88 | 18.81 42.15 | 5.81 229.69 | 5.24 283.15 | .94 15.29 | 1.12 281.31 | 1.77 51.67 PHASE |
| 300 | 4.26 | 51.62 | 616 | 25.81 137.23 | 27.18 327.78 | 12.23 23.91 | 5.15 285.87 | 5.51 253.68 | 1.83 337.77 | 1.17 284.92 | 1.73 353.28 PHASE |
| 301 | 5.27 | 52.63 | 614 | 26.31 141.42 | 27.98 335.55 | 12.33 36.89 | 5.27 221.29 | 6.88 279.18 | 1.86 .41 | 1.12 328.82 | 1.32 23.76 PHASE |
| 302 | 6.33 | 54.46 | 615 | 26.97 139.62 | 28.22 329.61 | 12.81 27.65 | 4.95 214.18 | 6.85 267.18 | 1.14 348.31 | 1.73 313.64 | 1.17 352.41 PHASE |
| 306 | 7.86 | 48.65 | 615 | 23.32 139.95 | 24.38 337.82 | 11.85 44.35 | 4.88 284.93 | 5.86 258.61 | .96 44.88 | .77 178.83 | .77 48.83 PHASE |
| 307 | 8.27 | 49.98 | 615 | 23.75 141.86 | 24.83 339.54 | 11.48 47.75 | 4.64 261.94 | 5.26 261.94 | .98 43.56 | .55 156.28 | .66 43.64 PHASE |
| 308 | 9.58 | 58.68 | 615 | 24.69 139.47 | 25.59 335.89 | 12.38 41.83 | 4.36 281.88 | 5.83 258.64 | 1.25 32.82 | .92 94.78 | .75 8.77 PHASE |
| 309 | 11.88 | 53.11 | 615 | 25.87 137.72 | 26.87 338.26 | 13.82 36.48 | 4.86 198.22 | 5.82 251.24 | 1.41 26.72 | .28 46.87 | .91 .88 PHASE |
| 310 | 7.27 | 42.58 | 615 | 19.44 141.81 | 28.58 346.82 | 7.79 61.68 | 3.77 211.68 | 5.88 25.14 | 1.84 47.54 | .95 178.21 | .18 293.88 PHASE |
| 311 | 9.88 | 46.17 | 615 | 28.71 137.93 | 21.88 337.34 | 9.57 49.37 | 4.18 187.93 | 5.24 243.88 | 1.18 18.74 | .89 138.22 | .13 212.74 PHASE |
| 312 | 11.18 | 46.49 | 615 | 21.34 141.52 | 22.17 343.38 | 18.45 58.25 | 4.13 197.49 | 5.34 254.62 | 1.32 38.26 | 1.84 158.37 | .13 266.19 PHASE |
| 313 | 12.61 | 46.69 | 615 | 21.62 148.44 | 22.85 348.77 | 18.93 56.18 | 4.83 194.84 | 5.38 248.13 | 1.39 36.81 | .97 126.43 | .13 284.73 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------------|
| RUN NO | | 36 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 298 | 58.13 | 43.24 | 615 | 18.57 141.98 | 14.32 325.32 | 12.82 31.11 | 7.52 165.93 | 18.61 289.43 | 6.57 169.73 | 4.68 181.44 | 1.23 23.46 PHASE |
| 291 | 52.87 | 43.77 | 615 | 9.79 148.38 | 13.71 328.91 | 13.87 24.68 | 7.51 159.26 | 11.92 278.48 | 9.58 178.81 | 6.24 176.66 | 1.78 18.19 PHASE |
| 292 | 54.89 | 58.84 | 615 | 9.81 134.74 | 12.98 313.11 | 14.29 14.64 | 8.17 144.49 | 12.88 261.41 | 12.57 162.98 | 8.32 163.63 | 2.17 351.82 PHASE |
| 293 | 55.11 | 59.81 | 615 | 8.34 138.12 | 12.86 318.27 | 15.29 13.87 | 8.88 141.87 | 13.37 263.14 | 14.48 166.49 | 8.95 163.67 | 1.82 1.29 PHASE |
| 294 | 55.91 | 66.58 | 615 | 8.88 124.55 | 12.97 384.72 | 16.77 5.43 | 8.77 136.83 | 13.33 254.57 | 28.24 167.49 | 11.84 168.34 | 1.87 354.81 PHASE |
| 295 | 56.64 | 69.38 | 615 | 7.45 113.93 | 12.37 381.63 | 17.17 5.67 | 8.14 131.78 | 13.46 255.55 | 22.25 172.78 | 18.88 161.22 | 1.69 352.84 PHASE |
| 296 | 57.64 | 75.85 | 615 | 7.47 187.36 | 12.62 382.85 | 18.11 7.44 | 7.22 136.48 | 14.36 275.68 | 23.62 191.97 | 12.43 177.58 | 1.69 22.11 PHASE |
| 297 | 58.34 | 43.61 | 615 | 11.29 136.83 | 13.69 329.81 | 9.84 34.12 | 5.91 171.38 | 18.54 282.82 | 18.97 281.88 | 5.67 221.88 | 1.88 64.42 PHASE |
| 298 | 51.89 | 43.32 | 615 | 18.76 134.49 | 13.13 322.14 | 18.94 25.48 | 6.83 165.84 | 11.73 266.83 | 12.49 196.28 | 5.14 287.87 | 1.17 44.54 PHASE |
| 299 | 53.65 | 45.93 | 615 | 18.26 133.59 | 12.85 322.74 | 12.81 27.66 | 6.64 172.22 | 12.75 278.87 | 11.89 284.34 | 5.99 213.17 | 1.81 58.99 PHASE |
| 300 | 56.18 | 55.75 | 616 | 9.88 116.42 | 12.59 299.38 | 15.55 3.76 | 7.35 126.85 | 13.55 238.93 | 15.38 167.85 | 6.68 157.18 | 1.94 346.61 PHASE |
| 301 | 57.38 | 63.46 | 614 | 8.86 115.51 | 13.17 383.38 | 16.42 13.15 | 8.81 141.18 | 13.88 259.16 | 16.83 185.88 | 7.57 178.89 | 2.89 16.71 PHASE |
| 302 | 58.49 | 64.81 | 615 | 8.36 186.85 | 13.41 293.62 | 17.72 2.43 | 8.89 122.72 | 12.65 248.89 | 28.87 163.58 | 8.24 153.83 | 2.11 348.78 PHASE |
| 306 | 57.48 | 48.34 | 615 | 9.11 117.88 | 11.58 299.85 | 14.81 19.59 | 6.26 141.97 | 12.26 242.99 | 16.26 212.86 | 4.72 195.26 | 1.26 47.87 PHASE |
| 307 | 58.99 | 53.28 | 615 | 8.61 112.37 | 12.18 297.22 | 14.83 19.55 | 6.88 139.28 | 12.64 258.12 | 15.61 218.29 | 5.59 183.35 | 1.68 42.67 PHASE |
| 308 | 68.13 | 57.32 | 615 | 8.59 182.45 | 12.75 289.38 | 16.41 9.41 | 7.82 121.88 | 11.68 237.11 | 17.86 189.81 | 7.45 166.36 | 1.75 11.84 PHASE |
| 309 | 61.68 | 63.86 | 615 | 8.38 88.87 | 13.41 288.69 | 17.68 18.22 | 8.61 188.35 | 11.15 228.59 | 18.39 177.41 | 7.98 156.22 | 1.83 358.81 PHASE |
| 310 | 57.56 | 48.54 | 615 | 9.99 132.13 | 18.88 387.18 | 18.22 48.78 | 8.28 179.83 | 9.78 258.76 | 12.86 243.85 | 3.46 296.61 | 1.26 86.28 PHASE |
| 311 | 59.89 | 44.16 | 615 | 9.32 117.82 | 11.82 288.85 | 12.68 22.84 | 5.54 143.15 | 18.91 226.68 | 18.44 289.85 | 2.93 214.14 | 1.34 31.96 PHASE |
| 312 | 59.98 | 58.24 | 615 | 8.88 113.76 | 11.46 298.81 | 13.73 27.43 | 6.81 144.58 | 11.92 234.85 | 28.43 238.87 | 3.52 289.74 | 1.44 58.88 PHASE |
| 313 | 61.47 | 51.38 | 615 | 8.32 185.24 | 12.85 282.46 | 14.29 28.28 | 6.21 134.77 | 13.11 226.47 | 18.92 221.68 | 3.88 174.34 | 1.48 31.18 PHASE |

TABLE VI.- Continued

(f) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|----------------|----------------|----------------|--------------|---------------|---------------|---------------|---------------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 290 | -2.76 | 3.46 | 615 | 2.15 136.22 | .47 215.79 | .59 179.43 | .45 69.45 | .28 19.92 | .34 203.64 | .38 34.88 | .14 98.28 AMP |
| 291 | -3.06 | 4.01 | 615 | 2.41 124.49 | .37 241.44 | .54 186.90 | .49 67.94 | .39 11.94 | .36 196.18 | .46 38.77 | .09 133.02 PHASE |
| 292 | -3.37 | 4.24 | 615 | 2.66 114.75 | .43 258.42 | .58 198.31 | .47 68.84 | .54 2.54 | .35 191.34 | .49 15.18 | .09 194.84 PHASE |
| 293 | -3.53 | 4.65 | 615 | 2.82 111.73 | .47 266.78 | .63 194.98 | .46 67.84 | .64 2.58 | .48 184.88 | .51 18.37 | .13 208.07 PHASE |
| 294 | -3.63 | 5.24 | 615 | 2.92 105.85 | .67 265.28 | .81 186.39 | .54 48.34 | .88 11.84 | .38 182.59 | .56 17.84 | .22 235.38 PHASE |
| 295 | -3.81 | 5.34 | 615 | 3.18 103.35 | .64 273.44 | .98 194.55 | .47 48.78 | 1.13 15.18 | .48 149.42 | .51 22.56 | .38 252.52 PHASE |
| 296 | -4.15 | 5.92 | 615 | 3.18 102.67 | .74 308.51 | .63 181.55 | .95 59.26 | 1.55 46.35 | .68 146.17 | .38 48.61 | .34 277.32 PHASE |
| 297 | -3.84 | 3.99 | 615 | 2.36 137.55 | .24 279.48 | .42 196.27 | .39 33.37 | .32 348.36 | .32 193.89 | .44 37.61 | .11 311.48 PHASE |
| 298 | -3.24 | 4.35 | 615 | 2.54 124.63 | .51 295.28 | .44 204.32 | .44 38.98 | .44 2.88 | .28 174.71 | .41 28.78 | .11 282.58 PHASE |
| 299 | -3.55 | 4.78 | 615 | 2.74 118.46 | .59 308.53 | .57 213.32 | .47 52.16 | .51 38.62 | .34 184.86 | .45 35.55 | .09 297.82 PHASE |
| 300 | -3.92 | 5.38 | 615 | 3.05 105.22 | .82 286.15 | .77 194.97 | .58 36.83 | .63 9.85 | .45 141.88 | .44 352.21 | .14 255.88 PHASE |
| 301 | -4.07 | 5.77 | 614 | 3.18 106.24 | .88 292.21 | .83 286.36 | .58 49.25 | .84 33.48 | .47 162.11 | .45 24.47 | .19 278.62 PHASE |
| 302 | -4.28 | 5.84 | 615 | 3.39 108.47 | .93 285.93 | .94 197.86 | .66 34.96 | .58 28.97 | .58 135.95 | .39 5.89 | .23 258.89 PHASE |
| 306 | -4.12 | 5.49 | 615 | 3.15 107.94 | 1.28 306.49 | 1.06 218.28 | .51 51.23 | .64 35.91 | .42 137.66 | .38 357.66 | .32 296.72 PHASE |
| 307 | -4.31 | 5.61 | 615 | 3.33 106.28 | 1.23 309.88 | 1.06 222.25 | .51 55.15 | .77 42.23 | .44 141.91 | .38 5.37 | .33 297.95 PHASE |
| 308 | -4.46 | 6.01 | 615 | 3.54 108.16 | 1.32 301.68 | 1.12 213.28 | .57 39.61 | .99 38.75 | .53 127.82 | .26 353.27 | .34 273.38 PHASE |
| 309 | -4.63 | 6.42 | 615 | 3.79 95.86 | 1.48 297.81 | 1.28 207.29 | .68 38.13 | 1.12 32.66 | .64 112.57 | .21 326.81 | .32 267.85 PHASE |
| 310 | -4.02 | 5.10 | 615 | 3.82 121.89 | 1.27 326.81 | 1.05 233.87 | .42 39.76 | .25 14.74 | .86 183.82 | .26 33.19 | .33 263.19 PHASE |
| 311 | -4.26 | 5.69 | 615 | 3.28 107.81 | 1.48 318.68 | 1.25 217.24 | .42 31.98 | .63 28.65 | .33 118.41 | .19 289.51 | .48 286.58 PHASE |
| 312 | -4.41 | 6.08 | 615 | 3.48 105.27 | 1.59 314.82 | 1.35 225.07 | .51 49.49 | .75 53.45 | .48 136.91 | .19 296.83 | .49 313.68 PHASE |
| 313 | -4.54 | 6.13 | 615 | 3.63 108.68 | 1.69 311.28 | 1.44 221.24 | .54 54.87 | .89 48.87 | .55 138.26 | .24 285.89 | .44 386.13 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------------|
| RUN NO 36 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 290 | -2.76 | 14.55 | 615 | 4.83 298.88 | 5.73 96.41 | 3.86 253.51 | 2.87 161.37 | 1.57 299.79 | .79 158.88 | .23 77.86 | .31 218.43 AMP |
| 291 | -2.31 | 15.55 | 615 | 4.89 283.87 | 6.49 181.41 | 2.44 252.37 | 1.86 171.69 | 1.82 293.87 | .89 146.83 | .38 65.85 | .43 231.53 PHASE |
| 292 | -1.57 | 16.81 | 615 | 5.79 277.17 | 6.98 98.11 | 1.98 245.24 | 1.87 171.18 | 2.88 284.32 | .67 136.94 | .47 32.88 | .09 287.82 PHASE |
| 293 | -1.87 | 18.28 | 615 | 6.53 278.53 | 7.27 99.85 | 1.74 241.47 | 1.83 168.25 | 2.12 288.59 | .68 139.34 | .26 29.26 | .68 215.28 PHASE |
| 294 | -.52 | 20.88 | 615 | 7.52 273.62 | 7.68 96.12 | 1.89 247.84 | 2.45 164.88 | 2.59 278.91 | .34 158.88 | .71 6.67 | .88 208.82 PHASE |
| 295 | .28 | 18.73 | 615 | 8.17 267.68 | 7.27 95.38 | .41 252.29 | 2.84 163.58 | 3.23 267.44 | .38 383.49 | .64 15.89 | .64 228.57 PHASE |
| 296 | 1.07 | 20.98 | 615 | 8.89 265.18 | 7.24 183.28 | .91 188.84 | 3.79 182.49 | 4.58 277.91 | 1.28 384.18 | .69 334.59 | .17 264.94 PHASE |
| 297 | -1.71 | 14.42 | 615 | 4.39 313.91 | 5.21 186.97 | 2.16 228.33 | 2.83 154.79 | 1.28 296.18 | .78 156.48 | .54 3.81 | .48 242.43 PHASE |
| 298 | -1.38 | 15.46 | 615 | 4.77 297.88 | 6.16 189.58 | 1.53 227.11 | 2.25 164.28 | 1.62 291.86 | .47 132.18 | .57 349.78 | .42 197.98 PHASE |
| 299 | -.69 | 18.44 | 615 | 5.68 297.55 | 6.98 117.84 | 1.21 229.39 | 2.42 185.28 | 2.74 318.18 | .35 136.85 | .69 28.82 | .52 225.16 PHASE |
| 300 | .06 | 19.89 | 616 | 6.91 286.67 | 7.69 182.77 | .98 166.82 | 2.73 168.22 | 2.48 277.44 | .89 33.89 | .65 345.97 | .64 178.86 PHASE |
| 301 | .43 | 21.18 | 614 | 7.38 288.81 | 7.91 189.34 | .73 151.25 | 3.85 182.81 | 2.89 291.78 | .24 314.73 | .75 21.32 | .88 288.18 PHASE |
| 302 | .76 | 21.83 | 615 | 8.82 282.15 | 8.14 181.55 | 1.16 117.88 | 3.36 171.52 | 3.25 273.92 | .68 387.86 | .62 7.76 | .82 187.51 PHASE |
| 305 | .46 | 17.95 | 615 | 6.88 298.63 | 7.16 117.54 | .87 113.13 | 3.81 192.57 | 2.84 388.34 | .18 12.18 | .95 23.73 | .61 255.94 PHASE |
| 306 | .62 | 17.95 | 615 | 6.39 293.97 | 7.47 113.92 | 1.89 99.88 | 3.83 188.86 | 2.21 298.23 | .45 353.67 | .93 8.15 | .57 238.66 PHASE |
| 307 | .81 | 19.16 | 615 | 6.78 292.83 | 7.93 115.63 | 1.29 98.78 | 3.15 191.48 | 2.48 291.81 | .65 342.19 | .92 18.42 | .68 236.64 PHASE |
| 308 | 1.84 | 28.38 | 615 | 7.28 286.86 | 7.96 118.23 | 1.69 82.46 | 3.69 182.83 | 3.88 281.88 | .99 324.69 | .92 6.74 | .75 216.54 PHASE |
| 309 | 1.39 | 22.87 | 615 | 8.84 288.38 | 8.18 184.23 | 2.45 72.78 | 4.18 178.37 | 3.27 273.63 | 1.34 312.81 | .84 358.98 | .59 283.63 PHASE |
| 310 | .79 | 16.81 | 615 | 6.29 318.13 | 6.66 117.48 | 1.81 187.88 | 2.88 281.97 | .89 381.72 | .89 256.84 | .42 48.69 | .52 262.93 PHASE |
| 311 | 1.17 | 18.19 | 615 | 6.66 296.78 | 7.89 188.57 | 2.33 77.16 | 3.64 188.88 | 1.83 275.74 | .77 318.79 | .76 9.48 | .60 226.16 PHASE |
| 312 | 1.48 | 19.65 | 615 | 7.84 295.21 | 7.32 114.88 | 2.79 83.39 | 3.95 197.18 | 2.15 293.41 | 1.11 339.85 | .76 25.97 | .60 256.95 PHASE |
| 313 | 1.65 | 21.35 | 615 | 7.52 298.57 | 7.51 112.18 | 3.18 78.89 | 3.98 192.13 | 2.48 288.29 | 1.33 337.62 | .71 18.23 | .61 243.18 PHASE |

TABLE VI.- Continued

(g) $\mu = 0.40$; $M_T = 0.68$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|-----|-----|-------|----------|----------|----------|
| 319 | 1.4 | 4.4 | 2.2 | .03672 | .00249 | .00187 |
| 320 | .9 | 5.6 | 4.2 | .05008 | .00222 | .00227 |
| 321 | .7 | 6.6 | 6.1 | .06351 | .00195 | .00290 |
| 322 | .4 | 7.8 | 8.1 | .07544 | .00141 | .00384 |
| 323 | 1.3 | 4.3 | 4.2 | .02675 | .00003 | .00267 |
| 324 | .9 | 5.4 | 6.1 | .04004 | -.00129 | .00347 |
| 325 | .6 | 6.6 | 8.2 | .05419 | -.00284 | .00444 |
| 326 | .2 | 7.2 | 9.1 | .05942 | -.00354 | .00502 |
| 327 | 1.1 | 4.5 | 6.1 | .01782 | -.00017 | .00282 |
| 328 | .6 | 5.6 | 8.1 | .03129 | -.00263 | .00403 |
| 329 | .2 | 6.8 | 10.2 | .04422 | -.00509 | .00552 |
| 330 | -.1 | 7.3 | 11.2 | .05041 | -.00627 | .00626 |
| 331 | -.4 | 7.9 | 12.1 | .05692 | -.00779 | .00700 |

TABLE VI.- Continued

(g) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|-------|--------|--------|--------|-------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | 43.91 | 48.14 | 642 | 15.74 | 16.86 | 5.39 | 6.72 | 3.18 | 1.23 | 2.46 | 2.26 AMP |
| | | | | 145.37 | 328.45 | 57.92 | 36.12 | 113.66 | 65.43 | 246.99 | 53.63 PHASE |
| 320 | 45.91 | 39.49 | 642 | 17.37 | 17.76 | 5.48 | 6.73 | 2.68 | 1.51 | 1.98 | 2.37 AMP |
| | | | | 141.62 | 325.71 | 55.25 | 35.28 | 96.39 | 68.55 | 259.25 | 48.46 PHASE |
| 321 | 47.78 | 48.61 | 642 | 17.78 | 18.68 | 5.47 | 6.53 | 3.85 | 2.11 | 1.62 | 2.29 AMP |
| | | | | 141.58 | 329.24 | 64.85 | 42.88 | 118.72 | 78.36 | 385.92 | 55.57 PHASE |
| 322 | 49.38 | 39.54 | 642 | 17.91 | 19.28 | 5.12 | 5.45 | 4.51 | 2.41 | 1.71 | 1.97 AMP |
| | | | | 137.54 | 329.88 | 68.36 | 36.68 | 181.89 | 81.88 | 321.24 | 59.76 PHASE |
| 323 | 44.73 | 32.99 | 642 | 14.35 | 15.79 | 4.38 | 5.54 | 2.56 | 1.25 | 2.41 | 1.36 AMP |
| | | | | 146.24 | 331.53 | 54.44 | 36.19 | 54.93 | 351.96 | 268.22 | 48.16 PHASE |
| 324 | 46.65 | 33.42 | 642 | 14.95 | 16.59 | 4.83 | 5.86 | 3.82 | 1.28 | 2.48 | 1.33 AMP |
| | | | | 144.88 | 333.88 | 54.55 | 41.11 | 54.94 | 1.75 | 267.24 | 48.35 PHASE |
| 325 | 48.88 | 34.84 | 642 | 15.34 | 17.45 | 4.28 | 6.85 | 2.75 | 1.47 | 2.71 | 1.41 AMP |
| | | | | 144.85 | 338.28 | 56.61 | 58.81 | 78.12 | 35.25 | 313.26 | 72.53 PHASE |
| 326 | 49.69 | 35.87 | 642 | 15.63 | 17.66 | 3.84 | 6.85 | 2.57 | 1.72 | 3.81 | 1.24 AMP |
| | | | | 137.59 | 327.25 | 36.59 | 38.65 | 54.47 | 14.87 | 282.79 | 35.16 PHASE |
| 327 | 45.58 | 24.73 | 642 | 12.36 | 13.69 | 3.24 | 4.43 | 3.86 | 1.19 | .97 | .77 AMP |
| | | | | 151.65 | 338.84 | 54.35 | 58.62 | 38.52 | 351.99 | 281.24 | 81.62 PHASE |
| 328 | 47.67 | 25.41 | 642 | 12.88 | 14.61 | 3.38 | 4.86 | 3.56 | .92 | 1.84 | .92 AMP |
| | | | | 148.59 | 338.96 | 55.72 | 58.89 | 38.88 | 4.76 | 381.57 | 66.55 PHASE |
| 329 | 49.82 | 27.61 | 642 | 13.23 | 15.47 | 3.82 | 5.41 | 3.16 | .84 | 1.22 | .78 AMP |
| | | | | 144.51 | 337.52 | 53.46 | 43.38 | 29.47 | 2.83 | 312.68 | 72.97 PHASE |
| 330 | 58.92 | 28.82 | 642 | 13.55 | 15.96 | 2.87 | 5.63 | 2.99 | .97 | 1.19 | .98 AMP |
| | | | | 141.33 | 334.94 | 47.96 | 38.83 | 22.69 | 358.36 | 314.21 | 67.59 PHASE |
| 331 | 52.83 | 28.55 | 642 | 13.59 | 16.28 | 2.86 | 5.74 | 2.78 | .97 | 1.17 | .81 AMP |
| | | | | 137.17 | 338.57 | 42.56 | 38.88 | 25.19 | 358.58 | 312.16 | 58.47 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | 57.75 | 78.88 | 642 | 25.51 | 24.24 | 18.83 | 18.83 | 9.22 | 18.24 | 3.15 | .62 AMP |
| | | | | 288.67 | 155.55 | 283.78 | 83.84 | 248.74 | 125.36 | 85.56 | 271.18 PHASE |
| 320 | 55.91 | 91.29 | 642 | 31.68 | 33.55 | 16.38 | 15.28 | 18.31 | 23.13 | 3.39 | .98 AMP |
| | | | | 388.95 | 158.88 | 287.18 | 79.73 | 222.51 | 117.95 | 99.38 | 227.18 PHASE |
| 321 | 53.96 | 104.76 | 642 | 39.88 | 48.88 | 21.28 | 12.74 | 12.83 | 31.59 | 6.82 | 1.87 AMP |
| | | | | 328.47 | 171.81 | 297.15 | 81.95 | 226.83 | 136.14 | 128.75 | 228.78 PHASE |
| 322 | 53.59 | 117.32 | 642 | 51.62 | 47.57 | 26.62 | 11.89 | 13.44 | 35.48 | 9.48 | 2.37 AMP |
| | | | | 335.24 | 177.28 | 294.73 | 68.11 | 215.89 | 141.45 | 117.85 | 176.63 PHASE |
| 323 | 58.79 | 67.88 | 642 | 17.49 | 24.43 | 18.27 | 15.88 | 11.25 | 16.69 | 1.93 | .58 AMP |
| | | | | 287.43 | 162.84 | 277.28 | 76.79 | 248.56 | 122.83 | 353.48 | 254.25 PHASE |
| 324 | 59.88 | 82.82 | 642 | 25.14 | 33.37 | 14.76 | 13.52 | 14.15 | 18.93 | 1.47 | 1.27 AMP |
| | | | | 385.23 | 169.95 | 288.77 | 75.54 | 226.58 | 121.35 | 354.85 | 241.38 PHASE |
| 325 | 68.55 | 96.48 | 642 | 35.87 | 41.75 | 28.82 | 11.68 | 14.77 | 25.84 | 1.61 | 1.72 AMP |
| | | | | 329.11 | 184.85 | 299.48 | 82.66 | 239.37 | 144.85 | 93.85 | 281.56 PHASE |
| 326 | 68.92 | 189.47 | 642 | 41.86 | 46.82 | 22.88 | 11.54 | 15.95 | 27.38 | 2.28 | 1.92 AMP |
| | | | | 326.88 | 177.94 | 279.44 | 58.88 | 218.31 | 117.69 | 78.43 | 233.37 PHASE |
| 327 | 58.14 | 62.72 | 642 | 11.82 | 25.35 | 9.96 | 13.49 | 11.52 | 13.12 | 2.53 | .23 AMP |
| | | | | 272.45 | 183.12 | 269.68 | 93.88 | 255.63 | 158.92 | 327.86 | 246.17 PHASE |
| 328 | 61.43 | 71.53 | 642 | 16.77 | 34.26 | 13.95 | 11.49 | 18.86 | 15.16 | 2.25 | .95 AMP |
| | | | | 383.86 | 185.89 | 284.12 | 78.73 | 226.69 | 148.55 | 319.65 | 236.42 PHASE |
| 329 | 64.39 | 181.17 | 642 | 28.88 | 43.88 | 19.34 | 13.15 | 21.36 | 21.33 | .72 | 1.54 AMP |
| | | | | 328.74 | 193.88 | 288.81 | 64.88 | 222.13 | 144.84 | 17.88 | 244.25 PHASE |
| 330 | 65.85 | 116.68 | 642 | 34.91 | 49.11 | 22.78 | 13.58 | 21.77 | 23.27 | .72 | 2.81 AMP |
| | | | | 334.85 | 193.66 | 275.64 | 58.63 | 217.78 | 139.32 | 99.28 | 236.71 PHASE |
| 331 | 66.73 | 124.63 | 642 | 42.64 | 54.85 | 26.96 | 13.36 | 28.61 | 24.81 | 1.68 | 2.38 AMP |
| | | | | 348.11 | 193.28 | 271.89 | 56.18 | 288.96 | 131.89 | 126.77 | 228.16 PHASE |

TABLE VI.- Continued

(g) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | 4.91 | 18.41 | 642 | 3.12 | 3.88 | 2.57 | 1.28 | 1.82 | 1.89 | .85 | .34 |
| | | | | 182.12 | 269.73 | 57.16 | 293.65 | 87.25 | 292.23 | 199.77 | 348.88 |
| 320 | 3.63 | 11.83 | 642 | 4.37 | 4.35 | 2.16 | 1.81 | 1.95 | 1.13 | .87 | .34 |
| | | | | 99.51 | 273.13 | 48.11 | 291.52 | 79.81 | 278.51 | 338.29 | 347.44 |
| 321 | 2.89 | 13.82 | 642 | 5.75 | 4.63 | 1.55 | 1.12 | 2.48 | 1.13 | .23 | .44 |
| | | | | 96.23 | 278.22 | 58.96 | 288.42 | 75.54 | 272.87 | 87.81 | 28.35 |
| 322 | -1.14 | 15.68 | 642 | 7.72 | 4.51 | 1.36 | 1.39 | 3.63 | .47 | .83 | .49 |
| | | | | 82.71 | 281.63 | 9.86 | 382.88 | 63.32 | 256.74 | 92.36 | 54.39 |
| 323 | 4.18 | 9.88 | 642 | 3.26 | 3.24 | 2.12 | 1.14 | 1.51 | .71 | .16 | .34 |
| | | | | 126.29 | 293.81 | 18.18 | 274.84 | 189.74 | 286.68 | 99.73 | 338.98 |
| 324 | 3.24 | 18.42 | 642 | 4.83 | 3.83 | 2.81 | .79 | 1.69 | .68 | .11 | .39 |
| | | | | 121.74 | 299.92 | 5.72 | 275.18 | 118.17 | 264.44 | 53.94 | 347.67 |
| 325 | 1.94 | 18.67 | 642 | 5.14 | 4.38 | 1.98 | .68 | 1.85 | .48 | .33 | .57 |
| | | | | 117.24 | 388.31 | 358.88 | 263.64 | 187.95 | 256.44 | 75.68 | 22.14 |
| 326 | 1.31 | 11.73 | 642 | 5.69 | 4.62 | 2.14 | .58 | 2.85 | .43 | .48 | .61 |
| | | | | 189.88 | 296.26 | 333.24 | 242.26 | 79.98 | 198.25 | 35.29 | 344.83 |
| 327 | 3.92 | 8.66 | 642 | 3.28 | 3.54 | 1.76 | .67 | 1.44 | .78 | .84 | .16 |
| | | | | 139.11 | 386.56 | 358.53 | 288.78 | 134.82 | 324.28 | 139.56 | 32.27 |
| 328 | 2.93 | 9.13 | 642 | 3.82 | 4.22 | 1.88 | .11 | 1.44 | .38 | .18 | .24 |
| | | | | 138.88 | 389.77 | 332.44 | 381.36 | 126.37 | 278.67 | 83.86 | 21.73 |
| 329 | 1.98 | 18.42 | 642 | 4.42 | 4.78 | 2.12 | .19 | 1.85 | .35 | .31 | .45 |
| | | | | 122.88 | 312.46 | 318.66 | 67.61 | 114.48 | 253.94 | 97.24 | 7.92 |
| 330 | 1.39 | 11.48 | 642 | 4.91 | 4.98 | 2.39 | .23 | 2.88 | .27 | .36 | .62 |
| | | | | 119.12 | 318.92 | 388.77 | 61.58 | 189.19 | 228.85 | 98.85 | 2.44 |
| 331 | .79 | 11.82 | 642 | 5.42 | 5.27 | 2.58 | .35 | 2.86 | .18 | .39 | .68 |
| | | | | 112.82 | 387.52 | 286.84 | 42.62 | 99.88 | 173.59 | 84.17 | 356.89 |

TABLE VI.- Continued

(g) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|-------|--------|--------|--------|--------|-------|
| RUN NO 37 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 319 | 27.12 | 42.38 | 642 | 22.99 | 28.79 | 6.63 | 4.62 | .53 | .49 | .78 | 1.86 | AMP |
| | | | | 142.58 | 332.34 | 48.65 | 27.57 | 131.46 | 66.51 | 284.88 | 226.25 | PHASE |
| 320 | 28.77 | 43.55 | 642 | 24.27 | 22.14 | 7.11 | 4.29 | .26 | .53 | .55 | 1.13 | AMP |
| | | | | 139.15 | 329.23 | 48.82 | 28.32 | 83.55 | 78.52 | 265.76 | 214.69 | PHASE |
| 321 | 38.38 | 45.29 | 642 | 25.24 | 23.42 | 7.56 | 3.95 | 1.89 | .87 | .55 | 1.11 | AMP |
| | | | | 139.71 | 332.36 | 57.89 | 36.67 | 118.49 | 186.87 | 272.19 | 232.98 | PHASE |
| 322 | 31.96 | 46.19 | 642 | 25.98 | 24.62 | 7.74 | 2.77 | 1.56 | 1.13 | .67 | 1.18 | AMP |
| | | | | 136.94 | 331.66 | 58.97 | 33.76 | 188.41 | 122.82 | 268.36 | 238.64 | PHASE |
| 323 | 28.88 | 36.58 | 642 | 19.54 | 19.98 | 5.83 | 4.84 | 1.65 | .15 | .53 | .74 | AMP |
| | | | | 148.53 | 336.78 | 57.84 | 31.16 | 28.67 | 314.45 | 268.81 | 228.21 | PHASE |
| 324 | 38.53 | 38.41 | 642 | 28.72 | 21.89 | 5.95 | 4.87 | 2.85 | .28 | .64 | .63 | AMP |
| | | | | 139.48 | 337.71 | 59.65 | 36.61 | 19.47 | 345.86 | 273.82 | 228.88 | PHASE |
| 325 | 32.53 | 48.24 | 642 | 21.87 | 22.17 | 6.62 | 4.82 | 1.69 | .29 | .55 | .59 | AMP |
| | | | | 148.31 | 342.68 | 66.83 | 49.38 | 42.65 | 75.52 | 314.85 | 247.28 | PHASE |
| 326 | 33.31 | 48.94 | 642 | 22.36 | 22.59 | 6.59 | 4.83 | 1.59 | .28 | .67 | .57 | AMP |
| | | | | 134.84 | 331.68 | 49.29 | 29.37 | 14.68 | 54.71 | 279.54 | 283.54 | PHASE |
| 327 | 38.71 | 31.54 | 642 | 15.38 | 17.44 | 5.87 | 3.88 | 2.47 | .44 | .68 | .39 | AMP |
| | | | | 143.46 | 346.24 | 65.48 | 54.81 | 15.55 | 251.14 | 382.81 | 249.51 | PHASE |
| 328 | 32.69 | 33.84 | 642 | 17.33 | 18.82 | 5.88 | 3.28 | 2.82 | .37 | .66 | .48 | AMP |
| | | | | 141.73 | 345.48 | 67.91 | 48.78 | 15.59 | 233.96 | 293.41 | 245.36 | PHASE |
| 329 | 34.58 | 35.61 | 642 | 18.42 | 28.18 | 6.28 | 3.49 | 2.53 | .42 | .59 | .37 | AMP |
| | | | | 138.91 | 343.68 | 66.38 | 41.82 | 8.26 | 188.74 | 291.56 | 242.85 | PHASE |
| 330 | 35.43 | 36.18 | 642 | 19.81 | 28.81 | 6.42 | 3.62 | 2.52 | .45 | .62 | .39 | AMP |
| | | | | 136.89 | 348.88 | 61.98 | 38.84 | 359.81 | 182.31 | 282.32 | 234.14 | PHASE |
| 331 | 36.46 | 36.64 | 642 | 19.36 | 21.24 | 6.92 | 3.66 | 2.25 | .52 | .58 | .37 | AMP |
| | | | | 134.28 | 336.67 | 57.27 | 38.56 | 356.28 | 165.46 | 273.32 | 227.74 | PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------|-------|
| RUN NO 37 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 319 | 38.45 | 87.86 | 642 | 25.12 | 19.95 | 9.85 | 23.88 | 16.49 | 27.82 | 4.48 | 2.22 | AMP |
| | | | | 297.74 | 156.58 | 313.88 | 83.23 | 252.25 | 128.95 | 188.84 | 288.86 | PHASE |
| 320 | 36.33 | 184.12 | 642 | 38.48 | 27.43 | 14.65 | 22.14 | 17.18 | 35.23 | 5.18 | 3.12 | AMP |
| | | | | 387.76 | 162.26 | 315.77 | 88.98 | 234.46 | 115.83 | 115.84 | 282.66 | PHASE |
| 321 | 33.61 | 116.25 | 642 | 37.81 | 33.81 | 19.97 | 19.52 | 19.88 | 49.64 | 8.77 | 3.56 | AMP |
| | | | | 323.85 | 175.29 | 326.42 | 85.47 | 234.81 | 133.75 | 125.48 | 216.66 | PHASE |
| 322 | 31.95 | 133.65 | 642 | 47.23 | 42.52 | 25.44 | 17.64 | 28.71 | 56.16 | 13.35 | 4.43 | AMP |
| | | | | 336.59 | 181.95 | 323.57 | 77.38 | 223.18 | 148.56 | 119.72 | 288.85 | PHASE |
| 323 | 39.22 | 77.21 | 642 | 17.34 | 18.78 | 6.27 | 19.65 | 18.84 | 24.94 | 2.54 | .14 | AMP |
| | | | | 296.47 | 162.46 | 383.75 | 76.16 | 255.95 | 128.94 | 328.82 | 272.88 | PHASE |
| 324 | 39.76 | 95.37 | 642 | 23.65 | 25.86 | 11.36 | 19.19 | 28.88 | 28.68 | 1.91 | 1.35 | AMP |
| | | | | 389.58 | 171.85 | 316.34 | 77.94 | 239.48 | 118.58 | 388.89 | 226.18 | PHASE |
| 325 | 39.25 | 111.98 | 642 | 31.68 | 33.58 | 16.67 | 17.28 | 28.78 | 48.81 | 1.51 | 1.78 | AMP |
| | | | | 329.69 | 188.54 | 329.73 | 87.49 | 251.31 | 141.76 | 48.41 | 264.58 | PHASE |
| 326 | 39.85 | 128.74 | 642 | 36.19 | 37.47 | 18.68 | 17.35 | 22.81 | 43.31 | 2.23 | 2.27 | AMP |
| | | | | 327.25 | 181.86 | 389.72 | 64.43 | 221.22 | 114.92 | 47.49 | 219.35 | PHASE |
| 327 | 38.32 | 66.83 | 642 | 18.31 | 18.83 | 3.83 | 17.84 | 17.88 | 28.38 | 5.38 | .43 | AMP |
| | | | | 298.39 | 186.73 | 298.48 | 93.55 | 268.37 | 152.38 | 315.86 | 92.89 | PHASE |
| 328 | 48.63 | 74.73 | 642 | 15.45 | 25.92 | 7.92 | 16.33 | 23.75 | 23.87 | 5.79 | .82 | AMP |
| | | | | 311.22 | 189.71 | 389.76 | 81.48 | 237.39 | 149.45 | 381.37 | 281.97 | PHASE |
| 329 | 42.78 | 182.83 | 642 | 24.93 | 34.87 | 12.39 | 18.38 | 27.19 | 33.88 | 2.61 | 1.34 | AMP |
| | | | | 328.59 | 196.52 | 386.94 | 69.33 | 229.98 | 141.86 | 328.45 | 254.99 | PHASE |
| 330 | 43.38 | 113.79 | 642 | 29.58 | 38.98 | 14.96 | 18.91 | 27.96 | 37.73 | 1.38 | 1.58 | AMP |
| | | | | 333.98 | 197.49 | 382.71 | 65.13 | 225.63 | 137.35 | 388.12 | 246.78 | PHASE |
| 331 | 43.43 | 122.83 | 642 | 35.85 | 43.68 | 18.53 | 18.67 | 26.42 | 41.85 | 1.88 | 1.95 | AMP |
| | | | | 338.49 | 196.73 | 298.86 | 62.83 | 216.18 | 138.15 | 156.22 | 227.81 | PHASE |

TABLE VI.- Continued

(g) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | 3.42 | 7.42 | 642 | 2.71 | 2.58 | 1.97 | 1.28 | 1.29 | .83 | .15 | .28 |
| | | | | 54.81 | 242.48 | 49.85 | 258.82 | 44.92 | 246.17 | 321.83 | 265.16 |
| 320 | 2.24 | 7.03 | 642 | 3.55 | 2.55 | 1.46 | 1.88 | 1.39 | .89 | .17 | .22 |
| | | | | 68.34 | 258.91 | 47.37 | 258.92 | 41.86 | 229.49 | 387.91 | 282.47 |
| 321 | .91 | 8.84 | 642 | 4.59 | 2.58 | .81 | 1.16 | 1.73 | .94 | .23 | .38 |
| | | | | 63.18 | 268.14 | 74.88 | 252.34 | 35.48 | 237.28 | 18.61 | 315.93 |
| 322 | -1.83 | 9.98 | 642 | 6.46 | 2.81 | .23 | 1.39 | 2.59 | .34 | .61 | .36 |
| | | | | 54.88 | 272.78 | 217.65 | 281.48 | 22.12 | 259.86 | 48.28 | 339.44 |
| 323 | 2.65 | 5.98 | 642 | 2.18 | 1.88 | 1.32 | 1.29 | 1.88 | .48 | .18 | .21 |
| | | | | 76.89 | 275.75 | 5.45 | 235.43 | 75.72 | 232.58 | 352.88 | 281.84 |
| 324 | 1.72 | 6.96 | 642 | 2.85 | 2.21 | 1.14 | 1.87 | 1.17 | .44 | .19 | .27 |
| | | | | 78.88 | 285.42 | 349.89 | 237.22 | 76.89 | 287.95 | 334.88 | 293.18 |
| 325 | .54 | 7.96 | 642 | 3.81 | 2.67 | .88 | .92 | 1.34 | .44 | .37 | .36 |
| | | | | 81.41 | 298.68 | 326.59 | 243.88 | 72.34 | 289.91 | 26.29 | 313.99 |
| 326 | -.85 | 8.47 | 642 | 4.32 | 2.72 | 1.88 | .83 | 1.54 | .48 | .45 | .39 |
| | | | | 75.51 | 287.62 | 294.48 | 228.25 | 43.49 | 164.31 | 349.81 | 274.21 |
| 327 | 2.37 | 5.44 | 642 | 1.92 | 2.16 | .95 | .91 | 1.87 | .49 | .11 | .18 |
| | | | | 86.21 | 295.31 | 334.56 | 252.14 | 184.85 | 279.51 | 324.49 | 323.83 |
| 328 | 1.39 | 6.87 | 642 | 2.62 | 2.73 | 1.18 | .48 | 1.86 | .23 | .15 | .15 |
| | | | | 84.78 | 298.23 | 296.29 | 243.78 | 94.88 | 228.77 | 323.62 | 319.99 |
| 329 | .36 | 7.29 | 642 | 3.32 | 3.11 | 1.39 | .23 | 1.36 | .23 | .19 | .27 |
| | | | | 81.37 | 381.38 | 272.38 | 242.89 | 79.48 | 198.52 | 11.88 | 383.41 |
| 330 | -.17 | 8.43 | 642 | 3.79 | 3.31 | 1.63 | .21 | 1.52 | .28 | .24 | .29 |
| | | | | 88.38 | 388.58 | 263.12 | 247.95 | 73.77 | 177.57 | 12.32 | 293.44 |
| 331 | -.73 | 8.91 | 642 | 4.34 | 3.53 | 1.86 | .28 | 1.56 | .15 | .27 | .38 |
| | | | | 76.88 | 297.28 | 247.82 | 274.37 | 62.85 | 135.81 | 8.48 | 289.38 |

TABLE VI.- Continued

(g) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | 13.92 | 53.49 | 642 | 27.82 | 25.25 | 9.36 | 1.85 | 2.38 | 1.47 | 2.13 | 2.48 AMP |
| | | | | 137.73 | 332.82 | 36.29 | 24.38 | 292.26 | 227.88 | 76.57 | 222.88 PHASE |
| 320 | 15.59 | 55.86 | 642 | 29.65 | 27.81 | 18.84 | .91 | 2.22 | 1.39 | 1.88 | 2.34 AMP |
| | | | | 134.64 | 338.18 | 36.31 | 13.98 | 281.59 | 223.65 | 87.18 | 211.31 PHASE |
| 321 | 17.88 | 56.61 | 642 | 31.19 | 28.88 | 18.92 | .96 | 2.44 | 1.39 | 1.59 | 2.19 AMP |
| | | | | 135.69 | 333.65 | 46.05 | 11.81 | 283.57 | 241.69 | 126.32 | 226.16 PHASE |
| 322 | 18.53 | 58.89 | 642 | 31.93 | 38.62 | 11.47 | .63 | 2.69 | 1.32 | 1.61 | 1.87 AMP |
| | | | | 133.82 | 332.68 | 47.65 | 314.15 | 271.45 | 249.21 | 142.81 | 231.79 PHASE |
| 323 | 16.12 | 47.66 | 642 | 24.28 | 24.87 | 8.82 | 1.12 | 1.66 | 1.88 | 2.86 | 1.24 AMP |
| | | | | 134.38 | 337.86 | 46.88 | 28.86 | 384.11 | 193.14 | 77.54 | 226.15 PHASE |
| 324 | 17.71 | 58.61 | 642 | 26.88 | 26.59 | 8.38 | 1.13 | 1.63 | .92 | 2.14 | 1.16 AMP |
| | | | | 133.49 | 338.53 | 58.39 | 31.71 | 386.79 | 283.88 | 85.29 | 218.87 PHASE |
| 325 | 19.65 | 52.95 | 642 | 27.82 | 28.88 | 9.51 | 1.85 | 1.39 | .86 | 2.47 | 1.31 AMP |
| | | | | 135.24 | 343.42 | 68.46 | 29.98 | 313.31 | 225.42 | 134.68 | 249.84 PHASE |
| 326 | 28.48 | 52.38 | 642 | 28.56 | 28.65 | 9.82 | 1.85 | 1.36 | 1.88 | 2.75 | 1.14 AMP |
| | | | | 129.27 | 332.44 | 45.11 | 6.78 | 287.33 | 285.85 | 185.89 | 289.47 PHASE |
| 327 | 18.78 | 38.47 | 642 | 28.22 | 21.94 | 7.16 | .54 | 1.38 | .99 | .67 | .61 AMP |
| | | | | 136.65 | 345.38 | 57.87 | 37.53 | 329.84 | 213.29 | 185.11 | 255.77 PHASE |
| 328 | 28.62 | 48.95 | 642 | 21.78 | 23.66 | 8.38 | .57 | 1.41 | .95 | .85 | .77 AMP |
| | | | | 134.83 | 344.33 | 68.96 | 9.75 | 326.58 | 223.85 | 129.82 | 241.22 PHASE |
| 329 | 22.64 | 43.88 | 642 | 23.57 | 25.23 | 9.31 | .58 | 1.36 | .86 | 1.17 | .73 AMP |
| | | | | 132.48 | 342.65 | 62.38 | 358.25 | 318.48 | 219.15 | 141.56 | 248.26 PHASE |
| 330 | 23.48 | 45.87 | 642 | 24.51 | 26.18 | 9.86 | .53 | 1.35 | .91 | 1.19 | .85 AMP |
| | | | | 138.87 | 339.98 | 59.44 | 348.76 | 313.82 | 211.88 | 141.97 | 238.94 PHASE |
| 331 | 24.57 | 46.29 | 642 | 25.13 | 26.72 | 18.86 | .62 | 1.35 | .93 | 1.26 | .76 AMP |
| | | | | 128.54 | 336.88 | 55.41 | 335.99 | 381.91 | 282.89 | 136.83 | 225.85 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | 48.45 | 88.84 | 642 | 23.63 | 15.19 | 7.71 | 26.37 | 28.12 | 32.87 | 7.18 | 3.15 AMP |
| | | | | 385.43 | 167.84 | 343.69 | 84.12 | 254.48 | 123.55 | 118.96 | 228.69 PHASE |
| 320 | 46.49 | 99.52 | 642 | 28.85 | 21.44 | 13.65 | 25.25 | 21.13 | 48.72 | 8.88 | 3.79 AMP |
| | | | | 313.15 | 171.13 | 336.44 | 81.72 | 236.61 | 117.59 | 131.68 | 217.53 PHASE |
| 321 | 43.66 | 122.19 | 642 | 35.31 | 26.82 | 28.88 | 22.78 | 23.68 | 58.29 | 12.89 | 3.27 AMP |
| | | | | 326.72 | 182.87 | 341.36 | 89.48 | 236.14 | 136.62 | 141.76 | 232.14 PHASE |
| 322 | 41.51 | 141.78 | 642 | 43.84 | 35.74 | 26.56 | 28.87 | 27.17 | 65.95 | 17.31 | 3.78 AMP |
| | | | | 338.35 | 186.84 | 334.97 | 88.69 | 224.86 | 143.89 | 134.87 | 288.41 PHASE |
| 323 | 49.37 | 78.97 | 642 | 16.38 | 14.57 | 4.99 | 21.91 | 21.75 | 29.34 | 1.75 | .58 AMP |
| | | | | 386.57 | 172.89 | 348.61 | 77.47 | 268.11 | 125.32 | 297.88 | 348.96 PHASE |
| 324 | 49.52 | 95.35 | 642 | 21.84 | 28.24 | 18.45 | 21.99 | 23.49 | 33.86 | 1.31 | 1.16 AMP |
| | | | | 315.62 | 188.96 | 348.68 | 88.89 | 244.12 | 122.69 | 241.89 | 269.92 PHASE |
| 325 | 48.44 | 118.18 | 642 | 28.76 | 26.84 | 16.97 | 28.14 | 24.58 | 48.24 | 1.34 | 1.52 AMP |
| | | | | 332.88 | 196.49 | 348.38 | 98.46 | 254.28 | 144.78 | 149.13 | 326.82 PHASE |
| 326 | 48.16 | 126.11 | 642 | 32.43 | 38.24 | 19.18 | 28.42 | 223.58 | 118.89 | 184.59 | 272.13 PHASE |
| | | | | 328.99 | 189.32 | 328.81 | 67.92 | 26.88 | 51.21 | 3.29 | 1.62 AMP |
| 327 | 49.29 | 78.43 | 642 | 9.57 | 15.71 | 2.45 | 28.42 | 28.73 | 24.92 | 7.87 | 1.18 AMP |
| | | | | 388.73 | 199.23 | 13.64 | 95.86 | 273.64 | 158.77 | 312.43 | 69.63 PHASE |
| 328 | 51.13 | 83.34 | 642 | 14.57 | 21.78 | 7.86 | 19.18 | 27.26 | 27.79 | 7.59 | .59 AMP |
| | | | | 328.83 | 288.17 | 348.27 | 85.83 | 242.79 | 156.19 | 296.21 | 126.39 PHASE |
| 329 | 52.31 | 112.37 | 642 | 22.34 | 28.52 | 11.68 | 28.98 | 38.93 | 48.81 | 2.58 | .95 AMP |
| | | | | 332.19 | 284.78 | 334.68 | 74.32 | 233.18 | 146.58 | 299.54 | 328.88 PHASE |
| 330 | 52.51 | 122.72 | 642 | 26.21 | 32.62 | 14.28 | 21.64 | 31.82 | 45.56 | 1.38 | 1.28 AMP |
| | | | | 336.35 | 284.94 | 328.36 | 78.37 | 228.25 | 141.77 | 242.88 | 319.52 PHASE |
| 331 | 52.28 | 138.61 | 642 | 38.86 | 36.62 | 18.88 | 21.48 | 38.33 | 49.79 | 3.36 | 1.18 AMP |
| | | | | 339.88 | 283.51 | 322.28 | 67.62 | 218.28 | 134.31 | 164.36 | 283.27 PHASE |

TABLE VI.- Continued

(g) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 37 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | .11 | 5.87 | 642 | 2.46 | 1.77 | 1.58 | .94 | .57 | .35 | .48 | .21 AMP |
| | | | | 66.81 | 263.48 | 68.78 | 288.22 | 78.47 | 268.88 | 343.28 | 239.11 PHASE |
| 328 | -.75 | 6.22 | 642 | 3.88 | 1.83 | 1.31 | .98 | .69 | .47 | .51 | .12 AMP |
| | | | | 68.82 | 273.86 | 68.74 | 277.44 | 78.53 | 258.39 | 331.89 | 237.81 PHASE |
| 321 | -1.69 | 7.84 | 642 | 3.72 | 1.78 | .98 | .95 | .97 | .56 | .48 | .18 AMP |
| | | | | 71.28 | 287.36 | 96.88 | 283.79 | 56.78 | 261.33 | 4.91 | 278.22 PHASE |
| 322 | -3.81 | 8.24 | 642 | 4.68 | 1.63 | .57 | 1.18 | 1.69 | .14 | .44 | .18 AMP |
| | | | | 68.73 | 315.35 | 144.89 | 313.19 | 42.86 | 21.68 | 58.78 | 281.97 PHASE |
| 323 | -.38 | 4.87 | 642 | 2.28 | 1.48 | 1.88 | .92 | .51 | .28 | .36 | .89 AMP |
| | | | | 78.35 | 297.82 | 38.69 | 268.18 | 123.88 | 226.69 | 356.82 | 256.71 PHASE |
| 324 | -1.88 | 5.66 | 642 | 2.73 | 1.71 | .97 | .85 | .62 | .28 | .38 | .89 AMP |
| | | | | 79.28 | 384.84 | 31.65 | 278.82 | 128.88 | 193.66 | 343.45 | 321.85 PHASE |
| 325 | -1.94 | 6.54 | 642 | 3.39 | 2.83 | .59 | .78 | .68 | .33 | .46 | .17 AMP |
| | | | | 83.85 | 318.82 | 31.23 | 279.57 | 183.87 | 218.61 | 35.79 | 314.54 PHASE |
| 326 | -2.33 | 6.87 | 642 | 3.68 | 2.13 | .45 | .65 | .81 | .31 | .49 | .23 AMP |
| | | | | 78.36 | 388.83 | 358.33 | 278.59 | 73.34 | 167.86 | 4.99 | 284.67 PHASE |
| 327 | -.68 | 4.68 | 642 | 2.88 | 1.71 | .68 | .67 | .67 | .28 | .34 | .85 AMP |
| | | | | 81.88 | 317.18 | 23.87 | 286.24 | 148.38 | 328.77 | 356.52 | 292.65 PHASE |
| 328 | -1.29 | 5.48 | 642 | 2.64 | 2.14 | .47 | .43 | .61 | .13 | .38 | .89 AMP |
| | | | | 81.73 | 316.45 | 342.82 | 283.58 | 138.13 | 169.25 | 342.48 | 332.28 PHASE |
| 329 | -2.86 | 6.29 | 642 | 3.22 | 2.48 | .58 | .29 | .77 | .18 | .33 | .28 AMP |
| | | | | 79.68 | 317.17 | 383.66 | 291.94 | 114.91 | 154.31 | 353.45 | 318.72 PHASE |
| 338 | -2.46 | 7.81 | 642 | 3.55 | 2.66 | .61 | .88 | .91 | .19 | .34 | .24 AMP |
| | | | | 79.83 | 316.44 | 287.54 | 296.21 | 186.78 | 136.52 | 358.81 | 298.63 PHASE |
| 331 | -2.85 | 7.44 | 642 | 3.91 | 2.87 | .77 | .32 | .96 | .19 | .33 | .25 AMP |
| | | | | 77.27 | 314.85 | 261.52 | 388.29 | 92.27 | 184.17 | 1.91 | 276.14 PHASE |

TABLE VI.- Continued

(g) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|-------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | -4.15 | 45.99 | 642 | 26.91 | 22.89 | 18.66 | 5.28 | 1.33 | 2.31 | 3.82 | 2.79 AMP |
| 320 | -2.11 | 48.58 | 642 | 139.68 | 338.38 | 13.95 | 218.48 | 297.81 | 13.12 | 282.28 | 18.98 PHASE |
| 321 | -.88 | 58.18 | 642 | 28.26 | 25.83 | 11.81 | 4.87 | 1.35 | 1.88 | 2.97 | 2.79 AMP |
| 322 | 1.97 | 53.47 | 642 | 138.93 | 329.88 | 9.76 | 217.82 | 274.46 | 351.73 | 282.88 | 18.17 PHASE |
| 323 | -1.57 | 43.27 | 642 | 29.79 | 27.87 | 11.92 | 4.11 | 2.93 | 2.18 | 2.91 | 2.69 AMP |
| 324 | .11 | 45.64 | 642 | 141.99 | 334.78 | 17.36 | 227.52 | 292.68 | 338.78 | 385.56 | 24.11 PHASE |
| 325 | 2.45 | 47.38 | 642 | 38.44 | 29.85 | 12.26 | 3.69 | 4.22 | 2.28 | 2.74 | 2.89 AMP |
| 326 | 3.48 | 48.58 | 642 | 142.83 | 335.82 | 16.84 | 234.85 | 282.29 | 316.57 | 388.34 | 38.53 PHASE |
| 327 | 1.28 | 38.42 | 642 | 24.12 | 22.32 | 7.88 | 5.25 | 3.81 | 1.22 | 2.78 | 1.18 AMP |
| 328 | 3.47 | 41.39 | 642 | 136.62 | 332.41 | 16.89 | 288.81 | 218.65 | 357.38 | 259.58 | 34.67 PHASE |
| 329 | 5.72 | 44.15 | 642 | 25.88 | 24.22 | 6.95 | 5.27 | 3.41 | .98 | 2.76 | 1.28 AMP |
| 330 | 6.86 | 44.96 | 642 | 138.33 | 336.87 | 16.78 | 212.86 | 215.24 | 341.85 | 266.86 | 17.86 PHASE |
| 331 | 8.12 | 46.15 | 642 | 27.31 | 25.83 | 7.86 | 4.98 | 3.32 | 1.18 | 3.85 | 1.44 AMP |
| | | | | 142.25 | 342.72 | 26.31 | 231.84 | 249.15 | 338.52 | 389.35 | 48.58 PHASE |
| | | | | 28.23 | 26.37 | 8.34 | 4.91 | 3.12 | 1.23 | 3.43 | 1.26 AMP |
| | | | | 137.17 | 333.28 | 18.17 | 211.96 | 226.94 | 312.94 | 278.96 | 2.68 PHASE |
| | | | | 21.59 | 19.61 | 5.19 | 4.85 | 4.33 | .81 | .84 | .69 AMP |
| | | | | 139.22 | 341.79 | 34.81 | 223.38 | 284.48 | 25.33 | 272.22 | 76.87 PHASE |
| | | | | 22.96 | 21.88 | 6.86 | 4.12 | 4.93 | .68 | .76 | .95 AMP |
| | | | | 139.43 | 342.87 | 39.12 | 215.63 | 285.14 | 25.44 | 289.68 | 57.58 PHASE |
| | | | | 24.68 | 22.83 | 6.88 | 4.21 | 4.38 | .72 | 1.86 | .98 AMP |
| | | | | 138.87 | 343.66 | 38.15 | 288.84 | 285.34 | 355.39 | 381.13 | 55.28 PHASE |
| | | | | 25.39 | 23.74 | 7.88 | 4.11 | 4.98 | .78 | 1.82 | 1.48 AMP |
| | | | | 137.96 | 341.55 | 36.63 | 285.72 | 198.99 | 357.38 | 386.29 | 52.38 PHASE |
| | | | | 25.92 | 24.39 | 8.81 | 3.64 | 3.93 | .81 | 1.12 | .94 AMP |
| | | | | 136.76 | 338.18 | 33.68 | 281.33 | 281.78 | 346.24 | 385.31 | 35.68 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | 64.35 | 52.69 | 642 | 8.19 | 13.55 | 9.85 | 8.24 | 9.68 | 11.93 | 1.36 | .96 AMP |
| 320 | 66.39 | 45.28 | 642 | 131.97 | 312.23 | 16.62 | 99.85 | 255.62 | 118.34 | 147.89 | 2.41 PHASE |
| 321 | 68.21 | 52.76 | 642 | 7.34 | 13.79 | 18.81 | 8.42 | 18.29 | 14.88 | 2.38 | 1.15 AMP |
| 322 | 69.87 | 64.19 | 642 | 124.62 | 386.22 | 6.97 | 95.22 | 237.98 | 187.84 | 159.88 | 336.95 PHASE |
| 323 | 65.57 | 42.99 | 642 | 6.92 | 14.28 | 13.38 | 7.67 | 12.25 | 21.38 | 3.26 | 1.58 AMP |
| 324 | 66.68 | 41.16 | 642 | 116.58 | 387.42 | 8.73 | 183.62 | 242.46 | 129.32 | 155.63 | 357.31 PHASE |
| 325 | 68.88 | 47.46 | 642 | 6.47 | 14.87 | 15.23 | 6.49 | 14.45 | 24.76 | 4.58 | 1.81 AMP |
| 326 | 78.28 | 51.84 | 642 | 91.89 | 381.62 | 2.42 | 94.13 | 232.91 | 139.58 | 141.89 | .48 PHASE |
| 327 | 68.33 | 38.26 | 642 | 8.46 | 13.16 | 6.62 | 6.52 | 18.72 | 11.83 | 2.39 | 1.43 AMP |
| 328 | 69.28 | 48.91 | 642 | 124.89 | 315.88 | 23.22 | 98.53 | 247.57 | 116.78 | 256.95 | 26.36 PHASE |
| 329 | 72.81 | 49.24 | 642 | 7.87 | 13.43 | 8.88 | 6.85 | 11.93 | 12.43 | 2.27 | 1.22 AMP |
| 330 | 72.81 | 49.24 | 642 | 122.82 | 314.88 | 13.43 | 181.73 | 235.13 | 115.13 | 246.84 | .87 PHASE |
| 331 | 73.18 | 55.88 | 642 | 7.13 | 13.94 | 18.78 | 6.18 | 12.86 | 18.71 | 1.62 | 1.92 AMP |
| | | | | 112.85 | 314.34 | 17.29 | 111.83 | 247.98 | 137.78 | 287.28 | 24.94 PHASE |
| | | | | 6.92 | 14.11 | 11.68 | 6.15 | 13.37 | 19.98 | 1.85 | 1.71 AMP |
| | | | | 182.81 | 381.31 | 357.57 | 87.38 | 218.41 | 111.11 | 252.88 | 335.41 PHASE |
| | | | | 8.62 | 11.98 | 5.12 | 6.26 | 9.98 | 9.53 | 3.43 | 1.48 AMP |
| | | | | 125.13 | 316.32 | 44.78 | 111.72 | 253.58 | 153.24 | 296.91 | 66.67 PHASE |
| | | | | 7.77 | 12.88 | 6.83 | 6.83 | 13.74 | 18.78 | 3.74 | 1.36 AMP |
| | | | | 119.55 | 311.21 | 34.21 | 184.96 | 238.52 | 151.89 | 286.43 | 62.31 PHASE |
| | | | | 7.86 | 12.76 | 8.43 | 6.41 | 15.18 | 16.88 | 1.72 | 1.41 AMP |
| | | | | 187.99 | 385.82 | 22.68 | 93.97 | 222.18 | 148.18 | 297.73 | 24.69 PHASE |
| | | | | 6.88 | 13.47 | 9.33 | 6.85 | 15.47 | 18.87 | 9.4 | 1.62 AMP |
| | | | | 98.52 | 299.95 | 16.42 | 87.41 | 216.67 | 134.99 | 276.29 | 17.38 PHASE |
| | | | | 6.76 | 13.97 | 18.85 | 7.84 | 15.85 | 19.86 | 7.77 | 1.48 AMP |
| | | | | 88.97 | 293.38 | 8.82 | 82.81 | 288.24 | 127.57 | 172.79 | 358.32 PHASE |

TABLE VI.- Concluded

(g) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | -3.27 | 4.38 | 642 | 2.35 | .79 | .58 | .53 | .33 | .62 | .47 | .23 AMP |
| 320 | -3.72 | 4.52 | 642 | 135.38 | 165.51 | 65.84 | 348.32 | 235.49 | 123.68 | 354.83 | 131.14 PHASE |
| 321 | -4.17 | 5.83 | 642 | 2.75 | .67 | .68 | .55 | .33 | .67 | .54 | .22 AMP |
| 322 | -4.63 | 5.72 | 642 | 125.59 | 153.83 | 48.84 | 334.87 | 222.85 | 116.33 | 334.43 | 121.27 PHASE |
| 323 | -3.58 | 3.97 | 642 | 3.16 | .61 | .49 | .55 | .38 | .75 | .71 | .27 AMP |
| 324 | -4.88 | 4.21 | 642 | 121.72 | 154.91 | 52.54 | 335.48 | 277.73 | 124.46 | 349.68 | 178.78 PHASE |
| 325 | -4.52 | 4.82 | 642 | 3.39 | .88 | .58 | .78 | .54 | .55 | .84 | .33 AMP |
| 326 | -4.75 | 5.22 | 642 | 113.29 | 139.57 | 55.82 | 349.33 | 348.11 | 182.72 | 357.57 | 287.68 PHASE |
| 327 | -3.73 | 4.81 | 642 | 2.54 | .41 | .51 | .72 | .57 | .61 | .37 | .16 AMP |
| 328 | -4.13 | 4.57 | 642 | 138.18 | 149.42 | 52.39 | 346.67 | 241.59 | 139.93 | 2.89 | 118.32 PHASE |
| 329 | -4.58 | 5.23 | 642 | 2.77 | .36 | .61 | .81 | .58 | .73 | .35 | .19 AMP |
| 330 | -4.82 | 5.34 | 642 | 138.81 | 158.54 | 42.12 | 341.76 | 242.21 | 148.38 | 352.37 | 78.79 PHASE |
| 331 | -5.85 | 5.66 | 642 | 3.15 | .26 | .53 | .75 | .62 | .76 | .41 | .22 AMP |
| | | | | 127.87 | 144.26 | 48.28 | 357.22 | 275.25 | 153.66 | 17.49 | 153.88 PHASE |
| | | | | 3.38 | .26 | .52 | .83 | .52 | .88 | .41 | .18 AMP |
| | | | | 119.28 | 132.46 | 36.84 | 339.11 | 257.47 | 128.45 | 347.76 | 118.14 PHASE |
| | | | | 2.59 | .18 | .27 | .68 | .55 | .58 | .45 | .88 AMP |
| | | | | 138.59 | 22.36 | 58.15 | 356.88 | 244.15 | 162.99 | 18.18 | 318.64 PHASE |
| | | | | 2.84 | .19 | .17 | .78 | .53 | .65 | .41 | .89 AMP |
| | | | | 138.79 | 319.48 | 28.42 | 351.96 | 245.56 | 143.37 | 351.38 | 315.55 PHASE |
| | | | | 3.12 | .27 | .16 | .88 | .47 | .73 | .45 | .15 AMP |
| | | | | 121.84 | 312.75 | 23.78 | 349.57 | 247.74 | 132.26 | 347.38 | 247.45 PHASE |
| | | | | 3.32 | .31 | .17 | .83 | .43 | .74 | .45 | .21 AMP |
| | | | | 117.79 | 317.65 | 14.84 | 344.15 | 246.68 | 124.41 | 342.41 | 238.83 PHASE |
| | | | | 3.55 | .41 | .12 | .79 | .32 | .69 | .27 | .27 AMP |
| | | | | 113.15 | 322.19 | 325.47 | 338.68 | 257.85 | 111.14 | 336.87 | 288.31 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 37 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 319 | -1.68 | 14.46 | 642 | 4.52 | 4.96 | 3.25 | .69 | 1.58 | .78 | .32 | .65 AMP |
| 320 | -.77 | 16.68 | 642 | 287.24 | 88.77 | 288.93 | 146.84 | 268.88 | 88.55 | 38.76 | 188.42 PHASE |
| 321 | .46 | 17.54 | 642 | 5.75 | 5.57 | 3.87 | .68 | 1.67 | .89 | .19 | .48 AMP |
| 322 | 2.27 | 28.15 | 642 | 282.31 | 89.28 | 288.71 | 184.61 | 251.26 | 61.46 | 65.13 | 168.97 PHASE |
| 323 | -.48 | 11.85 | 642 | 7.82 | 6.89 | 2.78 | .49 | 2.43 | .76 | .86 | .59 AMP |
| 324 | .18 | 13.28 | 642 | 288.82 | 94.88 | 282.72 | 155.67 | 258.56 | 66.85 | 31.88 | 187.22 PHASE |
| 325 | .99 | 14.94 | 642 | 8.88 | 6.16 | 2.84 | 1.17 | 3.78 | .52 | .38 | .88 AMP |
| 326 | 1.37 | 15.17 | 642 | 269.89 | 94.55 | 181.96 | 143.89 | 237.43 | 334.34 | 264.13 | 288.68 PHASE |
| 327 | .39 | 11.23 | 642 | 4.63 | 4.43 | 3.17 | .28 | 1.11 | .68 | .24 | .29 AMP |
| 328 | 1.86 | 11.85 | 642 | 383.75 | 183.27 | 184.87 | 113.27 | 278.98 | 182.52 | 11.88 | 149.16 PHASE |
| 329 | 1.56 | 13.75 | 642 | 5.36 | 5.83 | 3.17 | .36 | 1.32 | .54 | .16 | .23 AMP |
| 330 | 1.74 | 14.78 | 642 | 381.42 | 188.87 | 177.59 | 289.65 | 277.84 | 86.48 | 69.25 | 96.92 PHASE |
| 331 | 2.86 | 14.94 | 642 | 6.38 | 5.78 | 3.28 | .38 | 1.66 | .24 | .28 | .52 AMP |
| | | | | 381.86 | 117.34 | 178.86 | 235.26 | 276.82 | 72.87 | 138.58 | 169.66 PHASE |
| | | | | 6.88 | 5.96 | 3.21 | .41 | 1.91 | .22 | .58 | .58 AMP |
| | | | | 293.52 | 185.71 | 156.84 | 288.87 | 248.32 | 326.84 | 188.28 | 131.97 PHASE |
| | | | | 4.72 | 4.66 | 2.88 | .12 | .85 | .67 | .25 | .15 AMP |
| | | | | 313.37 | 113.28 | 176.28 | 246.79 | 299.47 | 135.69 | 358.58 | 249.85 PHASE |
| | | | | 5.48 | 5.28 | 2.89 | .68 | 1.89 | .41 | .21 | .18 AMP |
| | | | | 389.87 | 115.87 | 168.89 | 245.78 | 281.99 | 92.76 | 348.72 | 222.38 PHASE |
| | | | | 5.96 | 5.67 | 2.86 | .94 | 1.53 | .28 | .19 | .44 AMP |
| | | | | 384.81 | 118.13 | 144.54 | 236.83 | 272.25 | 28.42 | 322.23 | 194.21 PHASE |
| | | | | 6.38 | 5.94 | 3.82 | .93 | 1.71 | .34 | .24 | .64 AMP |
| | | | | 382.56 | 116.67 | 135.81 | 225.43 | 265.26 | 333.88 | 381.81 | 181.85 PHASE |
| | | | | 6.84 | 6.24 | 2.98 | .96 | 1.87 | .48 | .26 | .82 AMP |
| | | | | 297.45 | 114.38 | 122.99 | 212.38 | 255.38 | 383.33 | 298.28 | 167.28 PHASE |

TABLE VII.- ROTOR PERFORMANCE AND BLADE LOADS DATA FOR
ACR BLADE WITH SWEPT TIP AND 4° TABS

(a) $\mu = 0.20$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 108 | -.7 | 1.5 | -2.2 | .02568 | .00107 | .00143 |
| 109 | -1.5 | 2.8 | .2 | .03994 | .00074 | .00166 |
| 110 | -1.5 | 2.4 | 2.0 | .05417 | .00144 | .00181 |
| 111 | -2.1 | 3.2 | 4.0 | .06652 | .00131 | .00218 |
| 112 | -2.5 | 4.2 | 5.8 | .07666 | .00071 | .00277 |
| 113 | -2.8 | 4.8 | 8.0 | .08993 | .00066 | .00333 |
| 114 | -3.4 | 5.6 | 9.9 | .10091 | .00004 | .00416 |
| 115 | -3.6 | 6.7 | 11.9 | .11120 | -.00068 | .00518 |
| 116 | -4.1 | 7.5 | 13.8 | .12050 | -.00105 | .00644 |
| 117 | -4.4 | 7.7 | 14.9 | .12411 | -.00102 | .00709 |
| 118 | -4.7 | 8.6 | 15.7 | .12566 | -.00227 | .00795 |
| 119 | -1.3 | 2.7 | -2.0 | .03478 | .00478 | .00112 |
| 120 | -1.3 | 2.6 | -.1 | .05005 | .00647 | .00103 |
| 121 | -1.9 | 3.3 | 2.0 | .06373 | .00744 | .00116 |
| 122 | -2.1 | 4.0 | 3.9 | .07587 | .00819 | .00143 |
| 123 | -2.7 | 4.5 | 5.9 | .08773 | .00892 | .00179 |
| 124 | -3.1 | 5.2 | 8.0 | .10025 | .00959 | .00249 |
| 125 | -3.6 | 5.9 | 9.9 | .11024 | .00976 | .00315 |
| 126 | -4.0 | 6.5 | 11.8 | .12081 | .01033 | .00409 |
| 127 | -4.7 | 7.7 | 13.9 | .12831 | .00983 | .00561 |
| 128 | -5.0 | 8.2 | 14.8 | .12979 | .00968 | .00622 |
| 129 | -1.0 | 2.3 | 0.0 | .02285 | -.00133 | .00177 |
| 130 | -1.6 | 3.0 | 1.9 | .03617 | -.00267 | .00220 |
| 131 | -1.4 | 3.8 | 3.9 | .04856 | -.00391 | .00268 |
| 132 | -1.6 | 4.1 | 5.8 | .06162 | -.00480 | .00311 |
| 133 | -2.2 | 5.0 | 7.8 | .07332 | -.00631 | .00378 |
| 134 | -2.5 | 5.4 | 9.9 | .08502 | -.00722 | .00455 |
| 135 | -3.0 | 6.3 | 11.8 | .09668 | -.00890 | .00548 |
| 136 | -3.6 | 7.3 | 13.8 | .10695 | -.01074 | .00668 |
| 137 | -4.1 | 8.3 | 15.9 | .11613 | -.01224 | .00816 |
| 138 | -4.2 | 8.5 | 16.9 | .11962 | -.01221 | .00889 |
| 139 | -.9 | 3.3 | 4.0 | .03583 | -.00618 | .00267 |
| 140 | -1.3 | 3.8 | 5.9 | .04741 | -.00822 | .00333 |
| 141 | -1.7 | 4.5 | 7.9 | .06049 | -.01065 | .00413 |
| 142 | -2.1 | 5.2 | 9.9 | .07183 | -.01289 | .00498 |
| 143 | -2.6 | 5.9 | 11.9 | .08396 | -.01515 | .00597 |
| 144 | -3.1 | 6.6 | 13.9 | .09496 | -.01751 | .00714 |
| 145 | -3.6 | 7.1 | 15.8 | .10519 | -.01959 | .00828 |

TABLE VII.- Continued

(a) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 7 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 108 | 47.23 | 8.32 | 608 | 2.45 | 1.81 | .35 | .99 | 3.05 | .85 | .67 | 1.19 | AMP |
| | | | | 154.81 | 289.38 | 258.67 | 165.45 | 41.12 | 281.38 | 191.94 | 356.55 | PHASE |
| 109 | 48.86 | 9.11 | 608 | 2.77 | 1.85 | .79 | .89 | 2.74 | .91 | .63 | 1.61 | AMP |
| | | | | 149.78 | 292.88 | 389.59 | 181.78 | 31.69 | 271.61 | 192.97 | 353.88 | PHASE |
| 110 | 50.21 | 7.48 | 607 | 2.29 | 1.98 | 1.81 | 1.85 | 1.81 | 1.88 | .53 | 1.86 | AMP |
| | | | | 165.84 | 387.22 | 346.76 | 219.47 | 43.41 | 283.61 | 243.35 | 18.43 | PHASE |
| 111 | 51.64 | 7.37 | 607 | 2.29 | 2.82 | 1.13 | 1.86 | 1.86 | 1.24 | .51 | 1.11 | AMP |
| | | | | 153.21 | 388.97 | 332.26 | 212.86 | 353.89 | 253.85 | 238.57 | 344.49 | PHASE |
| 112 | 52.96 | 8.48 | 606 | 2.35 | 2.85 | 1.28 | 1.22 | 2.74 | 1.44 | .59 | 1.48 | AMP |
| | | | | 144.55 | 312.18 | 338.84 | 227.31 | 348.36 | 273.17 | 249.88 | 2.18 | PHASE |
| 113 | 54.35 | 8.94 | 605 | 2.88 | 2.12 | 1.35 | 1.68 | 2.45 | 1.58 | .55 | 1.45 | AMP |
| | | | | 128.27 | 315.35 | 328.13 | 229.17 | 342.25 | 258.78 | 235.88 | 347.83 | PHASE |
| 114 | 55.44 | 8.91 | 603 | 1.98 | 2.28 | 1.43 | 2.35 | 1.38 | 1.44 | .49 | 1.94 | AMP |
| | | | | 186.42 | 334.42 | 336.56 | 251.14 | 6.29 | 274.18 | 218.56 | 48.46 | PHASE |
| 116 | 56.44 | 11.73 | 607 | 2.38 | 2.51 | 1.71 | 3.51 | 6.29 | 1.21 | 1.18 | 1.62 | AMP |
| | | | | 74.83 | 336.35 | 275.19 | 232.66 | 158.26 | 282.38 | 177.81 | 18.28 | PHASE |
| 116 | 57.19 | 15.55 | 604 | 3.77 | 3.23 | 3.22 | 3.99 | 3.59 | 2.82 | .74 | 1.95 | AMP |
| | | | | 46.97 | 341.28 | 254.45 | 222.28 | 166.77 | 192.85 | 239.33 | 337.49 | PHASE |
| 117 | 57.58 | 19.45 | 608 | 4.83 | 3.54 | 3.46 | 4.78 | 5.39 | 2.37 | .78 | 1.89 | AMP |
| | | | | 42.12 | 358.86 | 254.82 | 222.98 | 184.35 | 212.89 | 271.72 | 11.91 | PHASE |
| 118 | 57.88 | 21.65 | 608 | 5.88 | 3.84 | 3.89 | 5.34 | 5.74 | 2.37 | .93 | 2.25 | AMP |
| | | | | 38.14 | 351.88 | 232.78 | 286.93 | 187.32 | 216.82 | 385.58 | 336.55 | PHASE |
| 119 | 46.98 | 8.31 | 609 | 3.73 | 2.88 | .72 | .84 | 2.76 | .54 | .62 | .51 | AMP |
| | | | | 144.54 | 279.83 | 138.74 | 131.29 | 58.51 | 291.19 | 194.91 | 18.87 | PHASE |
| 120 | 48.36 | 8.75 | 608 | 3.66 | 2.86 | 1.85 | .89 | 2.51 | .38 | .47 | .77 | AMP |
| | | | | 158.66 | 293.64 | 115.87 | 153.83 | 98.18 | 325.35 | 222.88 | 38.21 | PHASE |
| 121 | 49.87 | 8.56 | 608 | 3.62 | 2.83 | 1.77 | .59 | 1.91 | .89 | .24 | .99 | AMP |
| | | | | 154.56 | 286.92 | 98.77 | 158.85 | 87.91 | 288.96 | 175.47 | .63 | PHASE |
| 122 | 51.18 | 8.27 | 608 | 3.58 | 2.89 | 1.23 | .78 | 1.37 | .23 | .34 | .98 | AMP |
| | | | | 158.55 | 279.42 | 66.88 | 189.74 | 96.46 | 182.85 | 135.16 | 332.35 | PHASE |
| 123 | 52.51 | 8.88 | 607 | 3.28 | 2.83 | 1.36 | 1.23 | 2.86 | .64 | .53 | .62 | AMP |
| | | | | 144.59 | 292.86 | 67.58 | 214.94 | 146.59 | 158.26 | 161.81 | 78.18 | PHASE |
| 124 | 53.75 | 12.34 | 606 | 2.68 | 2.87 | .47 | 2.44 | 2.22 | 1.49 | 1.19 | 1.24 | AMP |
| | | | | 132.98 | 383.26 | 67.73 | 251.18 | 189.88 | 178.55 | 288.69 | 146.72 | PHASE |
| 125 | 54.84 | 16.79 | 609 | 2.38 | 2.74 | .86 | 2.98 | 2.58 | 2.82 | 1.41 | 1.78 | AMP |
| | | | | 181.16 | 382.58 | 384.82 | 245.17 | 184.88 | 174.63 | 287.26 | 138.26 | PHASE |
| 126 | 55.71 | 19.47 | 608 | 2.67 | 3.45 | 2.51 | 3.65 | 4.12 | 2.45 | 1.87 | 1.82 | AMP |
| | | | | 66.38 | 319.17 | 271.54 | 268.47 | 218.78 | 216.48 | 251.93 | 163.78 | PHASE |
| 127 | 56.37 | 23.83 | 605 | 4.56 | 4.48 | 3.85 | 3.87 | 4.68 | 2.84 | .86 | 1.93 | AMP |
| | | | | 49.13 | 342.38 | 275.23 | 256.81 | 231.91 | 234.33 | 215.81 | 167.25 | PHASE |
| 128 | 56.57 | 24.86 | 607 | 5.61 | 4.62 | 3.52 | 4.52 | 6.37 | 2.63 | .76 | 1.35 | AMP |
| | | | | 38.69 | 336.93 | 251.84 | 225.25 | 286.77 | 215.72 | 221.87 | 77.29 | PHASE |
| 129 | 47.19 | 8.58 | 608 | 2.19 | 1.58 | .79 | .48 | 2.73 | .96 | .82 | 1.58 | AMP |
| | | | | 141.35 | 298.32 | 351.12 | 214.98 | 48.42 | 284.86 | 288.88 | 359.37 | PHASE |
| 130 | 48.71 | 9.36 | 609 | 2.36 | 1.62 | 1.43 | .57 | 3.16 | 1.11 | .66 | 1.73 | AMP |
| | | | | 143.67 | 388.82 | 348.87 | 236.84 | 51.31 | 382.89 | 225.41 | 12.81 | PHASE |
| 131 | 50.21 | 9.77 | 608 | 2.64 | 1.62 | 1.87 | .79 | 3.39 | 1.38 | .36 | 1.83 | AMP |
| | | | | 149.98 | 318.84 | 348.83 | 245.97 | 41.81 | 296.78 | 226.23 | 1.78 | PHASE |
| 132 | 51.73 | 11.25 | 609 | 2.47 | 1.67 | 2.12 | 1.88 | 4.83 | 1.71 | .28 | 2.58 | AMP |
| | | | | 146.98 | 311.14 | 339.82 | 225.76 | 7.26 | 277.82 | 235.81 | 329.48 | PHASE |
| 133 | 53.27 | 12.68 | 608 | 2.54 | 1.66 | 2.36 | 1.28 | 4.64 | 1.86 | .13 | 2.89 | AMP |
| | | | | 137.93 | 326.18 | 341.69 | 235.43 | 6.59 | 279.38 | 389.89 | 336.13 | PHASE |
| 134 | 54.77 | 13.98 | 608 | 2.33 | 1.73 | 2.22 | 1.68 | 4.81 | 2.22 | .23 | 3.32 | AMP |
| | | | | 124.82 | 342.24 | 348.77 | 248.48 | 9.81 | 273.67 | 32.85 | 336.18 | PHASE |
| 135 | 56.18 | 14.52 | 608 | 2.52 | 1.96 | 2.88 | 2.88 | 4.37 | 2.52 | .36 | 3.58 | AMP |
| | | | | 97.93 | 355.85 | 326.38 | 223.23 | 355.25 | 249.62 | 28.83 | 386.11 | PHASE |
| 136 | 57.44 | 14.32 | 607 | 3.38 | 2.59 | 1.49 | 2.59 | 2.94 | 2.48 | .26 | 3.56 | AMP |
| | | | | 71.86 | 13.17 | 299.57 | 218.75 | 14.98 | 248.49 | 182.49 | 311.73 | PHASE |
| 137 | 58.65 | 15.65 | 608 | 5.28 | 3.55 | 1.71 | 3.57 | .64 | 2.49 | .48 | 3.92 | AMP |
| | | | | 52.24 | 21.56 | 253.18 | 191.84 | 75.92 | 248.82 | 293.51 | 312.83 | PHASE |
| 138 | 59.23 | 18.11 | 604 | 7.88 | 4.16 | 2.44 | 4.34 | .82 | 2.38 | .98 | 4.24 | AMP |
| | | | | 43.17 | 15.18 | 228.78 | 168.83 | 173.98 | 239.18 | 321.15 | 381.76 | PHASE |
| 139 | 49.42 | 7.45 | 608 | 2.43 | 1.88 | 1.62 | .24 | 2.48 | .61 | .27 | 1.87 | AMP |
| | | | | 143.75 | 314.56 | 348.67 | 235.48 | 37.84 | 294.17 | 184.88 | 357.39 | PHASE |
| 140 | 50.93 | 7.89 | 608 | 2.45 | 1.22 | 2.88 | .25 | 2.61 | .73 | .84 | 1.26 | AMP |
| | | | | 137.48 | 315.78 | 341.92 | 248.72 | 11.86 | 271.21 | 35.58 | 318.62 | PHASE |
| 141 | 52.49 | 8.62 | 608 | 2.47 | 1.49 | 2.22 | .36 | 3.24 | .77 | .28 | 1.41 | AMP |
| | | | | 133.85 | 331.48 | 344.99 | 247.48 | 8.13 | 266.19 | 78.11 | 312.32 | PHASE |
| 142 | 54.13 | 9.72 | 608 | 2.58 | 1.69 | 2.19 | .45 | 3.54 | .83 | .56 | 1.58 | AMP |
| | | | | 121.38 | 347.95 | 341.47 | 259.76 | 1.57 | 248.99 | 56.85 | 381.76 | PHASE |
| 143 | 55.83 | 11.34 | 608 | 2.57 | 2.18 | 2.18 | .59 | 3.58 | .98 | .84 | 1.76 | AMP |
| | | | | 183.44 | 4.82 | 328.75 | 261.73 | 359.85 | 225.75 | 56.28 | 273.41 | PHASE |
| 144 | 57.42 | 12.74 | 609 | 3.13 | 2.72 | 2.21 | .77 | 3.54 | 1.28 | 1.14 | 2.26 | AMP |
| | | | | 83.26 | 15.96 | 389.63 | 248.75 | 353.34 | 284.26 | 54.49 | 257.91 | PHASE |
| 145 | 58.78 | 13.58 | 606 | 4.68 | 3.38 | 2.36 | 1.21 | 3.87 | 1.44 | 1.12 | 2.58 | AMP |
| | | | | 61.88 | 22.54 | 285.13 | 213.87 | 343.38 | 282.31 | 46.62 | 256.16 | PHASE |

TABLE VII.- Continued

(a) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 7 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 52.72 | 16.78 | 608 | 7.29 | 1.98 | 1.58 | .93 | 3.23 | 2.58 | .31 | .52 |
| | | | | 256.68 | 81.32 | 211.68 | 28.61 | 9.97 | 225.39 | 289.88 | 36.56 |
| 109 | 52.88 | 23.26 | 608 | 13.34 | 2.57 | 2.79 | 1.39 | 2.61 | 2.99 | .86 | .68 |
| | | | | 282.58 | 93.34 | 258.88 | 32.28 | 19.32 | 224.96 | 216.57 | 32.22 |
| 110 | 58.98 | 26.97 | 607 | 18.35 | 4.28 | 1.35 | 1.82 | 4.33 | 2.29 | .86 | .34 |
| | | | | 312.84 | 108.59 | 127.87 | 353.19 | 328.12 | 284.59 | 339.13 | 77.86 |
| 111 | 49.63 | 38.26 | 607 | 26.29 | 5.68 | 4.89 | 2.71 | 4.93 | 2.81 | .92 | .48 |
| | | | | 321.51 | 99.61 | 143.48 | 323.53 | 331.61 | 322.81 | 312.13 | 339.87 |
| 112 | 48.35 | 49.74 | 606 | 34.42 | 6.69 | 7.63 | 3.47 | 4.96 | 2.99 | 1.19 | .76 |
| | | | | 329.24 | 108.92 | 166.51 | 327.56 | 346.79 | 11.98 | 312.59 | .47 |
| 113 | 46.28 | 68.12 | 605 | 47.56 | 7.93 | 11.76 | 4.74 | 5.94 | 6.45 | 2.36 | .47 |
| | | | | 337.83 | 98.98 | 179.65 | 311.98 | 359.87 | 34.52 | 274.86 | 343.67 |
| 114 | 44.38 | 85.87 | 603 | 68.35 | 8.52 | 14.54 | 6.59 | 6.48 | 8.89 | 3.39 | 1.37 |
| | | | | 346.97 | 118.98 | 287.25 | 327.79 | 48.66 | 81.18 | 312.16 | 42.98 |
| 115 | 42.57 | 104.69 | 607 | 79.89 | 8.95 | 16.34 | 8.84 | 4.35 | 6.33 | 3.56 | .47 |
| | | | | 347.48 | 182.27 | 284.93 | 389.46 | 9.14 | 22.93 | 288.13 | 37.83 |
| 116 | 48.74 | 133.66 | 604 | 97.66 | 9.18 | 15.91 | 6.97 | 6.22 | 16.78 | 2.73 | 1.89 |
| | | | | 353.98 | 113.22 | 212.22 | 318.44 | 357.95 | 8.36 | 332.75 | 389.44 |
| 117 | 48.16 | 148.92 | 608 | 104.88 | 7.55 | 11.98 | 3.79 | 8.12 | 21.54 | 2.33 | .56 |
| | | | | 359.73 | 127.48 | 228.25 | 386.19 | 46.84 | 36.21 | 69.44 | 14.22 |
| 118 | 48.76 | 158.45 | 608 | 113.46 | 6.85 | 7.11 | 4.21 | 7.98 | 23.29 | 4.75 | .45 |
| | | | | 356.79 | 124.79 | 216.63 | 165.35 | 81.37 | 43.33 | 99.38 | 185.48 |
| 119 | 47.28 | 22.76 | 609 | 14.82 | 2.78 | 3.59 | .91 | 1.66 | 1.89 | .17 | .39 |
| | | | | 258.64 | 72.27 | 227.29 | 345.56 | 6.28 | 194.49 | 388.36 | .61 |
| 120 | 45.45 | 32.56 | 608 | 28.88 | 4.88 | 4.25 | .83 | .78 | 4.68 | .55 | .76 |
| | | | | 298.71 | 96.55 | 388.83 | 88.96 | 318.68 | 317.44 | 228.68 | 95.77 |
| 121 | 43.88 | 38.92 | 608 | 26.58 | 6.84 | 1.82 | .92 | 2.75 | 7.87 | 2.15 | .88 |
| | | | | 384.49 | 188.32 | 338.82 | 6.37 | 291.16 | 327.78 | 189.85 | 78.83 |
| 122 | 41.71 | 58.39 | 608 | 35.41 | 8.68 | 2.46 | 2.62 | 4.15 | 5.92 | 1.39 | .92 |
| | | | | 315.73 | 188.13 | 162.81 | 328.16 | 386.87 | 323.47 | 78.18 | 25.44 |
| 123 | 39.45 | 68.55 | 607 | 43.81 | 18.81 | 6.25 | 4.16 | 5.36 | 6.81 | 1.32 | .65 |
| | | | | 329.98 | 188.98 | 196.75 | 343.18 | 1.87 | 354.85 | 124.95 | 74.84 |
| 124 | 36.68 | 75.19 | 606 | 57.26 | 12.88 | 18.18 | 5.85 | 4.82 | 5.29 | 1.68 | .88 |
| | | | | 341.99 | 114.66 | 217.28 | 358.86 | 49.69 | .56 | 248.82 | 138.31 |
| 125 | 35.11 | 91.76 | 609 | 78.34 | 12.66 | 14.32 | 6.54 | 3.24 | 7.88 | 1.82 | .47 |
| | | | | 341.81 | 185.85 | 288.49 | 316.73 | 23.78 | 323.88 | 251.22 | 193.86 |
| 126 | 33.62 | 112.46 | 608 | 86.91 | 12.92 | 15.27 | 6.48 | 3.43 | 11.91 | 2.68 | 1.62 |
| | | | | 352.63 | 128.13 | 228.83 | 325.87 | 54.41 | 351.45 | 263.88 | 388.26 |
| 127 | 33.84 | 136.99 | 605 | 181.24 | 11.85 | 1.15 | 4.41 | 6.76 | 11.12 | 1.67 | .98 |
| | | | | 1.79 | 147.61 | 244.67 | 313.59 | 66.77 | 56.29 | 319.56 | 13.55 |
| 128 | 34.81 | 139.37 | 607 | 187.39 | 9.63 | 11.93 | 2.81 | 9.92 | 13.82 | 1.66 | 1.68 |
| | | | | 358.99 | 144.72 | 243.92 | 244.86 | 71.78 | 54.88 | 114.93 | 358.91 |
| 129 | 47.28 | 12.86 | 608 | 5.78 | 1.38 | 1.66 | .99 | 2.93 | 2.58 | .69 | .39 |
| | | | | 283.34 | 93.31 | 236.78 | 28.33 | 4.89 | 178.27 | 388.62 | 67.85 |
| 130 | 47.46 | 16.39 | 609 | 8.93 | 2.28 | 3.82 | 1.38 | 1.71 | 2.61 | .32 | .41 |
| | | | | 295.85 | 188.89 | 251.14 | 46.12 | 359.33 | 238.46 | 386.57 | 71.14 |
| 131 | 47.88 | 28.47 | 608 | 18.62 | 4.18 | 2.35 | 1.84 | 4.36 | 2.48 | .66 | .42 |
| | | | | 314.37 | 188.64 | 178.48 | 354.18 | 383.77 | 358.22 | 318.73 | 68.85 |
| 132 | 46.35 | 44.89 | 609 | 28.35 | 4.89 | 7.98 | 2.88 | 5.88 | 3.22 | .82 | 1.87 |
| | | | | 338.86 | 183.52 | 171.36 | 335.82 | 313.78 | 15.51 | 241.65 | 16.12 |
| 133 | 45.86 | 59.38 | 608 | 39.11 | 5.53 | 11.47 | 3.84 | 5.98 | 7.88 | 1.82 | 1.62 |
| | | | | 338.28 | 188.17 | 186.74 | 341.89 | 328.86 | 32.28 | 263.46 | 18.93 |
| 134 | 44.88 | 78.24 | 608 | 53.21 | 5.91 | 14.62 | 5.31 | 5.85 | 18.87 | 3.69 | 2.23 |
| | | | | 347.83 | 185.31 | 283.13 | 336.89 | 338.96 | 38.57 | 283.88 | 22.86 |
| 135 | 44.14 | 95.35 | 608 | 67.91 | 6.28 | 17.49 | 6.47 | 4.68 | 13.73 | 4.22 | 2.59 |
| | | | | 346.19 | 95.19 | 288.34 | 318.87 | 385.39 | 21.28 | 272.54 | 353.74 |
| 136 | 43.68 | 189.88 | 607 | 86.22 | 6.55 | 17.49 | 5.78 | 2.28 | 14.31 | 4.49 | 2.65 |
| | | | | 351.87 | 94.74 | 213.12 | 332.33 | 273.95 | 33.24 | 325.41 | 288.38 |
| 137 | 43.76 | 132.48 | 608 | 186.99 | 5.16 | 13.21 | 2.12 | 3.18 | 16.68 | 4.13 | 1.69 |
| | | | | 357.21 | 95.72 | 229.18 | 38.89 | 171.82 | 43.92 | 62.26 | 38.38 |
| 138 | 43.11 | 147.58 | 604 | 119.47 | 3.73 | 6.97 | 9.98 | 5.17 | 15.56 | 7.92 | 1.56 |
| | | | | 359.37 | 93.29 | 216.46 | 188.87 | 135.25 | 49.28 | 75.68 | 26.45 |
| 139 | 47.95 | 21.39 | 608 | 11.47 | 2.48 | 2.36 | 1.91 | 3.36 | 3.57 | .16 | .25 |
| | | | | 321.99 | 189.58 | 177.86 | 38.88 | 385.85 | 299.22 | 98.84 | 114.25 |
| 140 | 47.99 | 34.98 | 608 | 28.42 | 2.98 | 6.87 | 2.47 | 4.14 | 4.17 | .53 | .37 |
| | | | | 333.47 | 188.98 | 178.36 | 357.98 | 312.56 | 343.85 | 177.78 | 11.16 |
| 141 | 47.99 | 49.72 | 608 | 31.18 | 3.36 | 18.51 | 3.84 | 4.19 | 5.38 | .86 | .99 |
| | | | | 343.84 | 112.65 | 187.95 | 357.82 | 335.48 | 13.83 | 243.23 | 8.88 |
| 142 | 48.18 | 63.31 | 608 | 43.32 | 3.88 | 13.88 | 4.42 | 2.68 | 6.48 | 1.75 | 1.15 |
| | | | | 348.48 | 115.98 | 197.11 | 353.79 | 327.15 | 18.18 | 266.88 | 3.51 |
| 143 | 48.83 | 81.22 | 608 | 58.99 | 3.59 | 17.28 | 6.18 | 2.88 | 9.21 | 1.94 | 1.34 |
| | | | | 351.23 | 116.16 | 283.82 | 341.87 | 264.42 | 353.75 | 284.23 | 349.79 |
| 144 | 47.34 | 96.96 | 609 | 75.76 | 3.24 | 19.76 | 7.36 | 4.88 | 14.88 | 1.63 | 1.64 |
| | | | | 352.93 | 184.47 | 287.83 | 334.26 | 226.68 | 342.58 | 388.56 | 333.56 |
| 145 | 45.41 | 116.76 | 606 | 95.58 | 2.18 | 19.67 | 7.38 | 8.41 | 14.37 | .73 | 1.83 |
| | | | | 357.96 | 98.82 | 213.11 | 389.37 | 221.62 | 349.32 | 359.38 | 326.47 |

TABLE VII.- Continued

(a) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 7 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 18.49 | 5.65 | 608 | 3.89 | 1.13 | .48 | .46 | .71 | .18 | .39 | .33 |
| | | | | 328.12 | 183.44 | 49.55 | 214.68 | 285.69 | 271.89 | 223.58 | 32.68 |
| 109 | 8.41 | 6.08 | 608 | 3.88 | 1.12 | .29 | .83 | .89 | .24 | .33 | .49 |
| | | | | 339.64 | 92.92 | 42.69 | 212.47 | 258.28 | 254.65 | 224.23 | 13.78 |
| 110 | 6.67 | 6.69 | 607 | 4.05 | 1.38 | .29 | 1.05 | .98 | .46 | .31 | .42 |
| | | | | 352.92 | 88.88 | 75.84 | 219.77 | 264.61 | 289.87 | 388.81 | 38.81 |
| 111 | 4.85 | 8.56 | 607 | 4.69 | 1.58 | .24 | 1.55 | 1.45 | .59 | .46 | .47 |
| | | | | 354.71 | 68.66 | 185.37 | 283.21 | 233.82 | 268.37 | 388.82 | 3.47 |
| 112 | 3.23 | 18.33 | 606 | 5.48 | 1.82 | .43 | 1.98 | 1.94 | .74 | .58 | .73 |
| | | | | 1.57 | 67.89 | 158.28 | 213.29 | 247.36 | 292.87 | 318.24 | 27.82 |
| 113 | 1.85 | 11.89 | 605 | 6.61 | 2.35 | .98 | 2.57 | 1.97 | .81 | .71 | .83 |
| | | | | 2.28 | 62.72 | 159.37 | 289.18 | 248.95 | 292.58 | 388.26 | 2.78 |
| 114 | -1.83 | 13.68 | 603 | 8.18 | 2.88 | 1.64 | 3.26 | 1.86 | .87 | .75 | 1.13 |
| | | | | 8.33 | 73.78 | 198.88 | 235.55 | 285.44 | 333.13 | 348.28 | 43.97 |
| 115 | -3.49 | 15.37 | 607 | 18.28 | 3.28 | 2.26 | 3.88 | 1.13 | 1.22 | 1.36 | 1.48 |
| | | | | 4.48 | 69.27 | 287.55 | 238.58 | 268.13 | 284.75 | 384.68 | 4.83 |
| 116 | -6.46 | 19.33 | 604 | 13.33 | 3.12 | 3.16 | 3.14 | 1.83 | 2.71 | 2.88 | 1.68 |
| | | | | 1.73 | 66.43 | 233.88 | 238.71 | 262.83 | 296.83 | 312.52 | 326.28 |
| 117 | -8.45 | 24.26 | 608 | 15.57 | 3.16 | 3.95 | 2.86 | 1.21 | 2.18 | 1.88 | 2.86 |
| | | | | 2.73 | 68.42 | 258.84 | 263.49 | 312.88 | 329.34 | 328.96 | 342.88 |
| 118 | -9.81 | 27.87 | 608 | 17.25 | 3.35 | 4.66 | 2.44 | .45 | 2.88 | 2.76 | 2.85 |
| | | | | 2.22 | 63.52 | 258.94 | 272.46 | 328.81 | 299.57 | 386.89 | 331.44 |
| 119 | 18.82 | 5.92 | 609 | 4.27 | 1.24 | .48 | 1.13 | .68 | .27 | .38 | .12 |
| | | | | 331.89 | 183.21 | 68.16 | 211.82 | 333.78 | 386.73 | 229.87 | 83.86 |
| 120 | 8.87 | 5.98 | 608 | 4.24 | 1.28 | .49 | .23 | .56 | .24 | .38 | .22 |
| | | | | 346.83 | 184.78 | 189.81 | 193.89 | 348.58 | 338.21 | 256.32 | 82.28 |
| 121 | 6.87 | 6.56 | 608 | 4.56 | 1.49 | .67 | .63 | .44 | .22 | .18 | .35 |
| | | | | 352.29 | 98.44 | 119.81 | 186.24 | 288.66 | 268.86 | 228.11 | 58.82 |
| 122 | 4.86 | 7.88 | 608 | 5.31 | 1.76 | .86 | 1.88 | .55 | .25 | .42 | .58 |
| | | | | 352.16 | 74.19 | 128.55 | 193.88 | 248.48 | 239.53 | 184.51 | 6.44 |
| 123 | 1.98 | 18.28 | 607 | 6.57 | 2.27 | 1.31 | 1.67 | .64 | .32 | .14 | .36 |
| | | | | 357.87 | 76.86 | 168.54 | 228.24 | 281.37 | 388.62 | 318.51 | 43.58 |
| 124 | -7.4 | 12.57 | 606 | 8.37 | 2.74 | 1.68 | 1.71 | .88 | .42 | .49 | .47 |
| | | | | 2.78 | 86.14 | 286.86 | 255.64 | 176.82 | 255.95 | 312.38 | 97.12 |
| 125 | -3.12 | 14.58 | 609 | 18.19 | 3.11 | 1.71 | 1.51 | 1.88 | .98 | .84 | .18 |
| | | | | .15 | 78.28 | 218.88 | 238.83 | 181.92 | 262.28 | 384.68 | 93.77 |
| 126 | -6.81 | 17.48 | 608 | 12.76 | 2.66 | 2.41 | 1.36 | 1.79 | 1.65 | 1.81 | .27 |
| | | | | 3.49 | 81.64 | 265.47 | 248.97 | 231.53 | 315.39 | 328.68 | 388.45 |
| 127 | -9.49 | 26.88 | 605 | 16.56 | 2.78 | 3.84 | 2.38 | 3.27 | 1.53 | .85 | .85 |
| | | | | 3.75 | 71.49 | 285.51 | 278.88 | 389.26 | 17.46 | 51.94 | 185.62 |
| 128 | -11.49 | 27.81 | 607 | 19.19 | 3.35 | 3.92 | 2.12 | 2.28 | 3.47 | 1.24 | 1.19 |
| | | | | 358.12 | 64.63 | 267.71 | 294.85 | 339.27 | 289.95 | 47.93 | 58.66 |
| 129 | 9.18 | 5.38 | 608 | 3.88 | 1.81 | .19 | .67 | .44 | .19 | .47 | .28 |
| | | | | 331.57 | 83.25 | 18.99 | 223.54 | 286.54 | .44 | 247.64 | 24.88 |
| 130 | 7.48 | 5.63 | 609 | 4.13 | .94 | .86 | .88 | .71 | .29 | .41 | .37 |
| | | | | 345.64 | 83.85 | 67.65 | 224.92 | 299.95 | 358.34 | 266.96 | 37.25 |
| 131 | 5.65 | 7.85 | 608 | 4.65 | 1.88 | .28 | 1.17 | 1.89 | .51 | .36 | .45 |
| | | | | 353.94 | 69.88 | 158.49 | 218.86 | 288.66 | 325.28 | 298.26 | 38.28 |
| 132 | 3.83 | 9.12 | 609 | 5.34 | 1.31 | .53 | 1.63 | 1.78 | .89 | .53 | .78 |
| | | | | 366.89 | 54.82 | 164.16 | 283.66 | 262.65 | 293.29 | 298.83 | 2.57 |
| 133 | 1.93 | 18.97 | 608 | 6.19 | 1.59 | .95 | 2.19 | 2.36 | 1.81 | .55 | .91 |
| | | | | 3.88 | 54.43 | 172.24 | 218.89 | 272.97 | 388.78 | 388.43 | 5.88 |
| 134 | -1.88 | 12.48 | 608 | 7.34 | 2.85 | 1.48 | 2.81 | 2.69 | 1.22 | .57 | 1.13 |
| | | | | 6.67 | 57.68 | 177.83 | 211.97 | 277.58 | 385.17 | 312.41 | 2.28 |
| 135 | -2.16 | 14.25 | 608 | 8.78 | 2.61 | 2.19 | 3.26 | 2.87 | 1.44 | .56 | 1.38 |
| | | | | 5.34 | 55.29 | 166.64 | 198.97 | 264.19 | 289.35 | 287.43 | 338.41 |
| 136 | -4.54 | 17.45 | 607 | 11.82 | 3.18 | 2.81 | 3.83 | 2.87 | 1.72 | .85 | 1.78 |
| | | | | 7.63 | 62.73 | 189.71 | 221.73 | 293.62 | 385.66 | 285.48 | 328.77 |
| 137 | -7.23 | 22.78 | 608 | 14.89 | 3.58 | 3.52 | 2.57 | 2.92 | 2.16 | 1.38 | 2.42 |
| | | | | 8.67 | 66.88 | 216.43 | 254.31 | 317.27 | 316.57 | 292.48 | 329.62 |
| 138 | -8.69 | 24.52 | 604 | 16.84 | 3.75 | 3.82 | 2.34 | 2.64 | 2.61 | 2.18 | 3.29 |
| | | | | 5.88 | 61.47 | 226.62 | 269.64 | 389.25 | 294.12 | 284.88 | 316.68 |
| 139 | 6.15 | 5.39 | 608 | 4.11 | .72 | .16 | .85 | .58 | .21 | .21 | .25 |
| | | | | 358.46 | 71.81 | 58.83 | 218.47 | 283.78 | 348.33 | 249.84 | 29.78 |
| 140 | 4.45 | 6.43 | 608 | 4.65 | .86 | .22 | 1.83 | .93 | .36 | .18 | .38 |
| | | | | 355.27 | 62.96 | 122.26 | 289.45 | 266.57 | 314.95 | 264.61 | 349.67 |
| 141 | 2.57 | 7.88 | 608 | 5.47 | 1.83 | .58 | 1.33 | 1.39 | .46 | .13 | .48 |
| | | | | 1.66 | 48.56 | 158.75 | 213.44 | 273.61 | 316.77 | 288.94 | 337.48 |
| 142 | .68 | 9.34 | 608 | 6.37 | 1.31 | .85 | 1.55 | 1.65 | .57 | .85 | .42 |
| | | | | 5.16 | 46.74 | 163.92 | 287.88 | 271.87 | 388.32 | 31.49 | 328.47 |
| 143 | -1.39 | 11.15 | 608 | 7.58 | 1.69 | 1.27 | 1.83 | 1.85 | .88 | .17 | .58 |
| | | | | 7.53 | 47.57 | 166.33 | 199.36 | 267.43 | 286.98 | 82.22 | 382.77 |
| 144 | -3.48 | 12.83 | 609 | 8.87 | 2.14 | 1.85 | 2.85 | 2.85 | 1.13 | .38 | .78 |
| | | | | 9.35 | 51.44 | 168.36 | 188.14 | 258.48 | 279.78 | 86.17 | 289.66 |
| 145 | -5.77 | 15.13 | 606 | 11.11 | 2.68 | 2.88 | 2.22 | 2.13 | 1.39 | .88 | .98 |
| | | | | 18.74 | 59.19 | 179.86 | 182.55 | 256.43 | 272.75 | 71.35 | 293.58 |

TABLE VII.- Continued

(a) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|--------------|
| RUN NO | | 7 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 108 | 32.21 | 7.48 | 608 | 4.41 148.53 | 2.53 295.53 | 1.18 298.67 | .78 194.33 | 1.68 39.27 | .35 293.19 | .87 299.58 | .29 179.44 | AMP PHASE |
| 109 | 33.78 | 8.23 | 608 | 5.18 142.43 | 2.46 292.72 | 1.58 315.61 | .75 287.92 | 1.66 26.41 | .39 294.38 | .18 328.11 | .46 172.65 | AMP PHASE |
| 110 | 34.78 | 8.88 | 607 | 5.63 151.71 | 3.82 297.55 | 2.15 332.98 | .88 243.35 | 1.17 38.16 | .36 385.57 | .89 388.98 | .31 194.39 | AMP PHASE |
| 111 | 35.85 | 9.19 | 607 | 6.16 148.35 | 3.21 287.89 | 2.39 322.29 | 1.81 243.11 | 1.33 349.47 | .36 281.35 | .88 193.57 | .31 148.87 | AMP PHASE |
| 112 | 36.98 | 9.85 | 606 | 6.44 158.12 | 3.39 291.13 | 2.74 338.82 | 1.88 262.61 | 1.91 349.74 | .41 291.52 | .86 171.87 | .39 155.79 | AMP PHASE |
| 113 | 38.21 | 18.19 | 605 | 6.93 147.83 | 3.61 288.88 | 2.99 328.18 | 1.34 262.83 | 1.72 345.24 | .37 284.56 | .16 287.51 | .38 134.84 | AMP PHASE |
| 114 | 39.27 | 12.81 | 603 | 7.38 151.85 | 3.59 299.48 | 3.22 345.37 | 1.78 278.97 | 1.88 188.98 | .25 288.51 | .28 252.25 | .48 284.89 | AMP PHASE |
| 115 | 48.28 | 12.92 | 607 | 7.67 145.52 | 3.88 289.26 | 3.83 315.73 | 2.38 251.18 | .26 132.18 | .85 166.33 | .13 298.48 | .26 156.68 | AMP PHASE |
| 116 | 48.95 | 13.98 | 604 | 7.49 143.88 | 5.87 295.36 | 3.27 295.51 | 2.69 224.22 | 2.21 172.61 | .35 146.28 | .34 182.18 | .48 128.88 | AMP PHASE |
| 117 | 41.14 | 15.67 | 608 | 7.82 142.79 | 5.29 385.64 | 2.85 288.28 | 3.71 225.64 | 3.35 194.87 | .49 196.79 | .43 121.52 | .39 152.88 | AMP PHASE |
| 118 | 41.59 | 15.77 | 608 | 7.15 136.59 | 5.26 384.87 | 2.98 255.58 | 4.39 214.33 | 3.68 281.66 | .48 221.37 | .68 111.25 | .65 134.72 | AMP PHASE |
| 119 | 31.74 | 9.35 | 609 | 6.81 134.34 | 3.58 287.16 | .27 336.81 | .57 174.47 | 1.42 58.85 | .27 285.68 | .88 294.78 | .15 286.52 | AMP PHASE |
| 120 | 32.89 | 18.35 | 608 | 6.73 147.14 | 4.13 296.91 | .65 37.19 | .54 214.11 | 1.27 84.53 | .14 335.64 | .88 333.33 | .15 258.26 | AMP PHASE |
| 121 | 34.17 | 11.38 | 608 | 7.17 147.64 | 4.22 289.41 | 1.87 315.88 | .54 238.32 | .91 85.89 | .12 333.41 | .83 228.92 | .18 162.82 | AMP PHASE |
| 122 | 35.26 | 12.87 | 608 | 7.68 144.46 | 4.37 288.87 | 1.62 8.15 | .84 243.79 | .62 92.92 | .11 388.25 | .85 112.85 | .39 136.55 | AMP PHASE |
| 123 | 36.33 | 12.78 | 607 | 7.99 147.58 | 4.56 285.93 | 2.85 16.25 | 1.89 254.82 | 1.88 158.18 | .13 282.87 | .21 184.98 | .17 262.66 | AMP PHASE |
| 124 | 37.46 | 13.87 | 606 | 8.16 149.18 | 5.83 289.87 | 1.98 4.92 | 1.83 269.73 | 1.38 218.21 | .28 236.78 | .28 227.86 | .39 344.79 | AMP PHASE |
| 125 | 38.55 | 13.16 | 609 | 8.15 141.98 | 5.84 282.56 | 2.73 337.86 | 2.29 257.34 | 1.77 213.98 | .42 219.92 | .21 284.69 | .62 315.84 | AMP PHASE |
| 126 | 39.46 | 14.53 | 608 | 7.87 144.44 | 6.14 299.63 | 2.65 318.95 | 3.83 263.25 | 2.55 244.18 | .39 223.64 | .21 184.31 | .68 354.19 | AMP PHASE |
| 127 | 48.87 | 19.12 | 605 | 7.19 143.39 | 7.51 319.52 | 3.45 384.34 | 3.47 268.97 | 2.78 244.98 | .98 219.44 | .34 239.61 | .65 338.85 | AMP PHASE |
| 128 | 48.29 | 21.99 | 607 | 6.92 133.68 | 7.45 312.67 | 2.62 278.74 | 4.23 228.17 | 4.27 216.85 | 1.48 286.17 | .28 199.42 | .42 257.88 | AMP PHASE |
| 129 | 33.34 | 8.23 | 608 | 4.74 136.56 | 2.28 291.33 | 1.45 352.45 | .48 215.32 | 1.43 41.71 | .44 293.88 | .84 348.95 | .34 174.91 | AMP PHASE |
| 130 | 34.68 | 9.73 | 609 | 5.38 141.98 | 2.26 295.81 | 2.28 353.57 | .55 241.49 | 1.84 52.72 | .48 323.93 | .83 331.28 | .42 188.84 | AMP PHASE |
| 131 | 35.96 | 18.96 | 608 | 6.84 145.47 | 2.47 295.33 | 2.37 348.29 | .75 255.98 | 2.85 45.18 | .35 296.89 | .82 254.73 | .58 166.18 | AMP PHASE |
| 132 | 37.15 | 11.85 | 609 | 6.55 145.62 | 2.61 298.81 | 3.29 339.26 | .98 244.36 | 2.58 12.15 | .43 284.98 | .18 166.85 | .71 134.27 | AMP PHASE |
| 133 | 38.51 | 12.98 | 608 | 7.82 147.77 | 2.64 296.99 | 3.83 344.28 | 2.97 261.89 | .46 13.17 | .46 283.75 | .26 288.17 | .96 143.79 | AMP PHASE |
| 134 | 39.71 | 13.87 | 608 | 7.58 149.87 | 2.65 297.83 | 3.99 345.35 | 1.13 268.88 | 3.38 16.44 | .53 281.18 | .25 217.29 | .88 144.87 | AMP PHASE |
| 135 | 48.98 | 14.58 | 608 | 7.96 144.13 | 2.32 296.55 | 4.28 335.89 | 1.21 258.13 | 3.25 2.28 | .49 258.19 | .22 186.85 | .88 111.89 | AMP PHASE |
| 136 | 42.87 | 14.32 | 607 | 8.24 142.81 | 2.25 386.42 | 3.38 332.93 | 1.49 216.73 | 2.29 28.48 | .58 233.43 | .82 92.99 | .88 113.14 | AMP PHASE |
| 137 | 43.26 | 13.98 | 608 | 8.36 138.74 | 2.44 318.77 | 1.96 314.52 | 2.83 189.88 | .45 65.58 | .55 214.43 | .52 97.41 | .15 116.21 | AMP PHASE |
| 138 | 43.88 | 13.79 | 604 | 8.33 132.59 | 3.81 314.17 | 2.15 261.81 | 3.61 179.55 | .58 213.96 | .63 211.61 | .86 97.42 | .15 186.35 | AMP PHASE |
| 139 | 35.78 | 8.89 | 608 | 5.45 143.52 | 1.98 296.15 | 2.62 346.13 | .33 245.28 | 1.42 39.37 | .14 267.11 | .84 273.84 | .25 188.88 | AMP PHASE |
| 140 | 36.97 | 9.34 | 608 | 5.99 142.92 | 2.88 294.28 | 3.13 341.13 | .41 241.78 | 1.51 12.63 | .21 246.48 | .12 172.54 | .34 138.89 | AMP PHASE |
| 141 | 38.28 | 18.34 | 608 | 6.53 145.96 | 2.38 383.54 | 3.43 344.16 | .42 252.99 | 2.85 9.99 | .31 258.19 | .23 283.58 | .47 138.83 | AMP PHASE |
| 142 | 39.61 | 11.84 | 608 | 7.81 147.11 | 2.33 383.25 | 3.67 344.69 | .38 279.76 | 2.55 3.25 | .15 262.85 | .28 233.77 | .58 128.12 | AMP PHASE |
| 143 | 41.83 | 12.45 | 608 | 7.51 147.32 | 2.32 318.15 | 3.99 339.33 | .42 277.65 | 2.46 2.95 | .88 232.44 | .25 238.65 | .51 93.87 | AMP PHASE |
| 144 | 42.48 | 13.89 | 609 | 8.84 145.94 | 2.28 326.84 | 4.45 332.89 | .47 265.88 | 2.65 356.86 | .86 188.58 | .18 253.68 | .68 73.16 | AMP PHASE |
| 145 | 43.61 | 15.88 | 606 | 8.48 142.99 | 2.17 328.82 | 3.78 328.86 | .85 217.65 | 2.46 353.77 | .26 128.38 | .12 86.77 | .71 64.41 | AMP PHASE |

TABLE VII.- Continued

(a) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 7 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 31.29 | 17.19 | 608 | 6.14 | 1.38 | 1.34 | 1.33 | 4.19 | 3.45 | .82 | .43 AMP |
| | | | | 256.11 | 84.75 | 248.28 | 16.74 | 12.76 | 221.88 | 322.28 | 158.48 PHASE |
| 109 | 38.57 | 28.33 | 608 | 18.45 | 1.78 | 2.63 | 2.11 | 3.86 | 4.16 | .23 | .58 AMP |
| | | | | 278.14 | 89.69 | 265.26 | 4.59 | 22.46 | 219.66 | 3.36 | 114.68 PHASE |
| 110 | 29.79 | 23.72 | 607 | 13.86 | 3.61 | 4.47 | 2.82 | 5.08 | 3.84 | 1.85 | 1.13 AMP |
| | | | | 385.42 | 103.79 | 284.38 | 348.25 | 348.33 | 288.71 | 356.58 | 131.15 PHASE |
| 111 | 28.43 | 38.14 | 607 | 19.27 | 5.15 | 3.14 | 4.14 | 6.81 | 4.37 | 2.84 | .94 AMP |
| | | | | 315.88 | 95.55 | 166.57 | 338.48 | 338.53 | 328.91 | 347.73 | 98.37 PHASE |
| 112 | 26.96 | 39.61 | 606 | 24.98 | 6.47 | 5.13 | 5.14 | 7.54 | 5.18 | 1.43 | .66 AMP |
| | | | | 325.22 | 101.83 | 186.75 | 332.91 | 354.11 | 15.18 | 3.88 | 148.98 PHASE |
| 113 | 24.27 | 57.91 | 605 | 34.67 | 8.34 | 8.98 | 7.26 | 9.31 | 10.28 | 3.82 | .34 AMP |
| | | | | 333.28 | 108.61 | 195.93 | 317.33 | 358.53 | 33.14 | 259.25 | 331.71 PHASE |
| 114 | 21.19 | 76.25 | 603 | 44.93 | 9.54 | 12.23 | 18.22 | 9.56 | 13.52 | 5.68 | 1.24 AMP |
| | | | | 343.24 | 112.65 | 224.72 | 334.39 | 33.97 | 77.97 | 297.54 | 48.78 PHASE |
| 115 | 17.56 | 87.43 | 607 | 68.35 | 18.48 | 15.21 | 13.36 | 6.17 | 18.17 | 6.89 | 1.16 AMP |
| | | | | 344.86 | 109.22 | 225.58 | 315.27 | 358.21 | 22.85 | 283.21 | 181.11 PHASE |
| 116 | 14.26 | 111.28 | 604 | 73.72 | 18.98 | 15.55 | 18.58 | 5.56 | 23.98 | 4.48 | .92 AMP |
| | | | | 358.43 | 128.84 | 235.26 | 317.34 | 344.83 | 11.15 | 349.81 | 114.88 PHASE |
| 117 | 12.32 | 126.72 | 608 | 79.58 | 9.44 | 12.59 | 5.93 | 4.59 | 38.33 | 5.53 | 2.19 AMP |
| | | | | 355.49 | 133.92 | 254.91 | 313.67 | 47.23 | 37.86 | 88.79 | 119.48 PHASE |
| 118 | 11.68 | 139.38 | 608 | 86.29 | 8.27 | 8.78 | 3.86 | 5.62 | 33.23 | 18.39 | 3.59 AMP |
| | | | | 352.58 | 131.82 | 258.61 | 199.58 | 121.83 | 43.88 | 99.87 | 124.18 PHASE |
| 119 | 25.69 | 19.48 | 609 | 11.52 | 1.98 | 2.98 | 1.84 | 1.93 | 1.67 | .56 | .58 AMP |
| | | | | 256.13 | 79.79 | 232.42 | 357.14 | 13.69 | 185.29 | 344.47 | 145.74 PHASE |
| 120 | 24.41 | 25.38 | 608 | 15.67 | 3.54 | 3.26 | 1.87 | .59 | 6.47 | .55 | 1.12 AMP |
| | | | | 285.99 | 96.43 | 382.18 | 57.49 | 351.87 | 311.99 | 225.11 | 141.28 PHASE |
| 121 | 22.84 | 33.58 | 608 | 28.11 | 5.76 | 1.71 | 1.59 | 2.37 | 18.56 | .67 | 1.52 AMP |
| | | | | 299.78 | 108.32 | 312.84 | 2.66 | 382.87 | 326.12 | 28.95 | 132.98 PHASE |
| 122 | 28.75 | 42.74 | 608 | 26.71 | 8.38 | 2.16 | 3.77 | 4.65 | 9.85 | 2.99 | .87 AMP |
| | | | | 311.29 | 97.54 | 198.86 | 332.59 | 318.85 | 324.46 | 42.77 | 117.52 PHASE |
| 123 | 18.22 | 52.61 | 607 | 33.88 | 18.84 | 5.38 | 6.11 | 5.28 | 18.31 | 2.83 | .37 AMP |
| | | | | 326.36 | 187.72 | 218.51 | 344.46 | 358.28 | 353.66 | 118.42 | 319.32 PHASE |
| 124 | 14.34 | 65.29 | 606 | 44.83 | 12.56 | 9.16 | 8.23 | 5.18 | 8.96 | 3.81 | 1.49 AMP |
| | | | | 338.52 | 114.61 | 242.20 | 358.98 | 32.82 | 358.61 | 238.88 | 349.43 PHASE |
| 125 | 11.33 | 76.52 | 609 | 55.29 | 13.54 | 13.84 | 18.33 | 4.83 | 12.48 | 3.24 | 2.38 AMP |
| | | | | 338.88 | 187.69 | 232.78 | 322.72 | 348.27 | 326.55 | 246.85 | 381.19 PHASE |
| 126 | 8.87 | 93.89 | 608 | 68.78 | 13.78 | 14.66 | 18.87 | 4.92 | 19.18 | 3.55 | 3.58 AMP |
| | | | | 349.46 | 123.88 | 253.78 | 338.64 | 358.83 | 354.74 | 259.46 | 388.82 PHASE |
| 127 | 6.68 | 114.26 | 605 | 79.44 | 12.48 | 15.31 | 7.88 | 5.78 | 15.89 | 2.83 | 4.29 AMP |
| | | | | 357.79 | 158.89 | 272.59 | 326.59 | 36.88 | 57.53 | 383.98 | 328.89 PHASE |
| 128 | 5.92 | 116.58 | 607 | 84.21 | 18.52 | 13.58 | 3.65 | 4.73 | 18.21 | 3.99 | 2.83 AMP |
| | | | | 354.39 | 147.88 | 271.18 | 261.34 | 68.88 | 53.29 | 114.83 | 274.58 PHASE |
| 129 | 24.38 | 14.35 | 608 | 4.87 | .94 | 1.74 | 1.62 | 3.92 | 3.67 | 1.88 | .88 AMP |
| | | | | 282.18 | 183.89 | 261.89 | 18.55 | 11.47 | 168.48 | 381.57 | 154.64 PHASE |
| 130 | 24.25 | 16.98 | 609 | 7.74 | 1.73 | 2.97 | 2.23 | 2.54 | 3.96 | .84 | .94 AMP |
| | | | | 291.58 | 187.88 | 265.52 | 17.42 | 26.87 | 223.25 | 333.49 | 157.38 PHASE |
| 131 | 23.74 | 24.74 | 608 | 14.51 | 3.43 | 1.72 | 3.37 | 4.24 | 3.36 | 1.53 | 1.93 AMP |
| | | | | 389.48 | 184.68 | 229.64 | 356.29 | 325.75 | 354.81 | 342.36 | 145.58 PHASE |
| 132 | 23.21 | 35.85 | 609 | 21.27 | 4.48 | 4.93 | 4.63 | 7.23 | 5.46 | .71 | 2.88 AMP |
| | | | | 324.73 | 186.97 | 191.68 | 348.47 | 329.18 | 21.86 | 191.88 | 185.22 PHASE |
| 133 | 22.16 | 48.87 | 608 | 28.68 | 5.22 | 7.71 | 6.88 | 8.48 | 18.98 | 2.75 | 1.97 AMP |
| | | | | 333.91 | 118.29 | 286.36 | 346.52 | 345.93 | 33.95 | 237.92 | 186.48 PHASE |
| 134 | 28.64 | 62.42 | 608 | 38.49 | 6.86 | 11.36 | 8.82 | 9.23 | 15.76 | 6.75 | 3.86 AMP |
| | | | | 342.76 | 188.77 | 221.49 | 342.34 | 351.72 | 39.48 | 265.37 | 88.99 PHASE |
| 135 | 18.87 | 88.62 | 608 | 49.71 | 7.11 | 14.69 | 9.89 | 7.77 | 21.96 | 7.88 | 4.19 AMP |
| | | | | 342.51 | 181.18 | 217.22 | 324.57 | 336.68 | 22.66 | 256.36 | 54.58 PHASE |
| 136 | 17.11 | 88.82 | 607 | 63.39 | 8.42 | 15.98 | 8.52 | 2.44 | 22.53 | 8.13 | 5.43 AMP |
| | | | | 348.87 | 186.36 | 228.61 | 335.66 | 348.78 | 36.82 | 314.78 | 64.15 PHASE |
| 137 | 15.99 | 118.82 | 608 | 78.78 | 8.16 | 13.51 | 2.17 | 4.75 | 24.86 | 7.74 | 5.63 AMP |
| | | | | 354.62 | 115.18 | 241.91 | 29.29 | 164.53 | 46.84 | 64.28 | 72.89 PHASE |
| 138 | 15.82 | 123.17 | 604 | 87.65 | 7.54 | 9.89 | 8.94 | 7.69 | 22.15 | 15.87 | 5.82 AMP |
| | | | | 356.56 | 117.88 | 232.86 | 118.74 | 154.11 | 51.28 | 88.24 | 48.78 PHASE |
| 139 | 24.48 | 18.48 | 608 | 9.15 | 2.87 | 1.74 | 2.95 | 3.42 | 5.35 | .96 | 1.14 AMP |
| | | | | 316.66 | 186.11 | 215.81 | 18.72 | 328.11 | 298.38 | 39.87 | 123.25 PHASE |
| 140 | 24.46 | 29.54 | 608 | 15.44 | 2.98 | 4.42 | 3.88 | 4.98 | 6.42 | 1.19 | 1.86 AMP |
| | | | | 327.76 | 187.15 | 191.85 | 1.88 | 325.37 | 342.39 | 122.11 | 187.48 PHASE |
| 141 | 24.16 | 39.35 | 608 | 23.17 | 3.34 | 7.88 | 4.92 | 8.24 | 8.22 | 2.29 | 1.17 AMP |
| | | | | 338.96 | 116.18 | 285.22 | 1.22 | 345.38 | 14.16 | 213.51 | 71.63 PHASE |
| 142 | 23.43 | 58.77 | 608 | 31.58 | 3.58 | 18.88 | 6.43 | 4.89 | 9.84 | 3.75 | 1.46 AMP |
| | | | | 344.28 | 116.27 | 214.78 | 356.78 | 347.23 | 18.48 | 248.89 | 55.31 PHASE |
| 143 | 22.44 | 63.82 | 608 | 42.51 | 3.62 | 13.56 | 8.62 | 3.86 | 14.16 | 4.14 | 2.11 AMP |
| | | | | 347.61 | 114.76 | 228.88 | 346.44 | 327.88 | 357.81 | 255.75 | 36.57 PHASE |
| 144 | 28.75 | 76.28 | 609 | 54.81 | 3.88 | 16.52 | 18.13 | 3.36 | 21.31 | 3.87 | 2.38 AMP |
| | | | | 349.66 | 111.34 | 223.83 | 338.79 | 268.19 | 346.28 | 268.76 | 11.83 PHASE |
| 145 | 17.57 | 91.89 | 606 | 78.81 | 4.29 | 17.63 | 9.43 | 6.31 | 21.86 | .92 | 3.87 AMP |
| | | | | 355.18 | 128.24 | 227.13 | 318.78 | 238.87 | 353.77 | 47.98 | 347.72 PHASE |

TABLE VII.- Continued

(a) Continued

| TORSION 35 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|-------|--------|--------|--------|--------|--------|--------------|
| RUN NO 7 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 9.13 | 5.31 | 608 | 3.98 | 1.10 | .37 | .36 | .65 | .88 | .19 | .19 AMP |
| | | | | 323.22 | 90.72 | 34.89 | 191.85 | 239.16 | 235.87 | 181.51 | 343.87 PHASE |
| 109 | 7.18 | 5.45 | 608 | 3.98 | 1.14 | .29 | .68 | .81 | .13 | .14 | .30 AMP |
| | | | | 333.14 | 82.18 | 44.51 | 185.61 | 218.48 | 192.78 | 176.25 | 323.52 PHASE |
| 110 | 5.48 | 5.98 | 607 | 4.13 | 1.38 | .28 | .84 | .85 | .28 | .24 | .28 AMP |
| | | | | 346.19 | 79.81 | 72.45 | 198.22 | 227.78 | 249.63 | 281.84 | 345.44 PHASE |
| 111 | 3.65 | 7.68 | 607 | 4.75 | 1.48 | .26 | 1.28 | 1.24 | .41 | .37 | .31 AMP |
| | | | | 347.68 | 61.64 | 92.23 | 173.19 | 195.68 | 228.86 | 258.31 | 314.39 PHASE |
| 112 | 2.87 | 9.23 | 606 | 5.39 | 1.62 | .44 | 1.68 | 1.69 | .57 | .48 | .50 AMP |
| | | | | 354.88 | 59.38 | 126.88 | 183.26 | 288.84 | 256.26 | 278.32 | 339.88 PHASE |
| 113 | .88 | 18.62 | 605 | 6.48 | 2.84 | .85 | 2.23 | 1.74 | .63 | .57 | .53 AMP |
| | | | | 354.64 | 51.69 | 133.24 | 178.15 | 289.72 | 257.21 | 267.56 | 314.88 PHASE |
| 114 | -1.98 | 12.23 | 603 | 7.67 | 2.48 | 1.47 | 2.81 | 1.63 | .71 | .59 | .74 AMP |
| | | | | .62 | 61.26 | 164.27 | 284.67 | 246.97 | 297.25 | 385.97 | 354.81 PHASE |
| 115 | -4.24 | 12.94 | 607 | 9.48 | 2.67 | 1.85 | 2.58 | 1.84 | .95 | 1.86 | .95 AMP |
| | | | | 355.57 | 56.54 | 181.83 | 198.46 | 233.12 | 246.72 | 258.54 | 312.32 PHASE |
| 116 | -6.94 | 16.82 | 604 | 12.88 | 2.61 | 2.39 | 2.66 | 2.68 | 2.22 | 1.56 | 1.11 AMP |
| | | | | 353.33 | 51.78 | 288.48 | 288.81 | 234.92 | 255.91 | 265.39 | 276.69 PHASE |
| 117 | -8.79 | 28.37 | 608 | 14.11 | 2.78 | 3.82 | 2.44 | 1.35 | 1.69 | 1.41 | 1.38 AMP |
| | | | | 354.87 | 53.81 | 227.96 | 235.88 | 286.81 | 285.96 | 272.25 | 291.92 PHASE |
| 118 | -18.87 | 22.46 | 608 | 15.59 | 2.98 | 3.57 | 2.14 | .78 | 1.68 | 2.16 | 1.91 AMP |
| | | | | 351.39 | 49.89 | 229.17 | 246.87 | 299.48 | 256.19 | 256.77 | 288.67 PHASE |
| 119 | 8.88 | 5.81 | 609 | 4.34 | 1.26 | .42 | .18 | .59 | .16 | .22 | .89 AMP |
| | | | | 325.88 | 91.17 | 48.36 | 191.46 | 293.85 | 276.64 | 186.54 | 24.32 PHASE |
| 120 | 6.87 | 5.68 | 608 | 4.29 | 1.28 | .42 | .16 | .45 | .14 | .22 | .17 AMP |
| | | | | 339.93 | 95.41 | 93.96 | 165.96 | 389.87 | 384.38 | 287.83 | 31.24 PHASE |
| 121 | 4.98 | 5.85 | 608 | 4.57 | 1.44 | .53 | .49 | .39 | .14 | .22 | .28 AMP |
| | | | | 345.13 | 79.77 | 183.47 | 154.36 | 248.19 | 221.19 | 192.96 | 357.66 PHASE |
| 122 | 3.89 | 6.91 | 608 | 5.24 | 1.58 | .66 | .91 | .49 | .28 | .84 | .32 AMP |
| | | | | 344.13 | 64.41 | 186.44 | 168.83 | 289.55 | 288.87 | 247.32 | 319.34 PHASE |
| 123 | 1.82 | 9.84 | 607 | 6.29 | 1.97 | 1.18 | 1.46 | .62 | .29 | .12 | .28 AMP |
| | | | | 349.87 | 62.97 | 138.18 | 187.33 | 247.81 | 267.18 | 292.18 | 347.88 PHASE |
| 124 | -1.42 | 18.47 | 606 | 7.71 | 2.27 | 1.37 | 1.44 | .86 | .31 | .38 | .36 AMP |
| | | | | 354.37 | 78.86 | 183.58 | 221.27 | 276.73 | 229.88 | 278.23 | 33.84 PHASE |
| 125 | -3.64 | 12.85 | 609 | 9.21 | 2.58 | 1.38 | 1.33 | .72 | .76 | .65 | .15 AMP |
| | | | | 351.75 | 61.71 | 183.13 | 194.33 | 151.65 | 225.11 | 262.82 | 347.54 PHASE |
| 126 | -6.27 | 14.77 | 608 | 11.32 | 2.22 | 1.78 | 1.32 | 1.31 | .91 | .81 | .21 AMP |
| | | | | 354.73 | 61.18 | 242.36 | 213.55 | 284.11 | 276.63 | 286.15 | 287.53 PHASE |
| 127 | -9.51 | 21.15 | 605 | 14.88 | 2.56 | 2.11 | 1.71 | 2.12 | 2.62 | 1.22 | .64 AMP |
| | | | | 354.86 | 51.62 | 263.28 | 258.13 | 284.82 | 335.58 | 3.72 | 54.91 PHASE |
| 128 | -11.37 | 22.78 | 607 | 17.21 | 3.16 | 2.98 | 2.11 | 2.26 | 2.69 | .92 | .82 AMP |
| | | | | 349.44 | 47.34 | 243.83 | 264.49 | 389.48 | 338.18 | 357.12 | 1.74 PHASE |
| 129 | 8.83 | 5.19 | 608 | 3.97 | .99 | .16 | .61 | .37 | .14 | .26 | .15 AMP |
| | | | | 325.82 | 72.63 | 38.68 | 194.85 | 237.44 | 354.54 | 213.13 | 335.48 PHASE |
| 130 | 6.48 | 5.38 | 609 | 4.22 | .97 | .14 | .77 | .63 | .18 | .22 | .22 AMP |
| | | | | 338.78 | 74.98 | 189.82 | 194.55 | 256.54 | 327.77 | 234.21 | 346.51 PHASE |
| 131 | 4.62 | 6.45 | 608 | 4.78 | 1.86 | .27 | .99 | .97 | .35 | .28 | .31 AMP |
| | | | | 346.48 | 64.82 | 138.92 | 187.71 | 248.28 | 289.64 | 261.98 | 354.47 PHASE |
| 132 | 2.83 | 8.34 | 609 | 5.48 | 1.24 | .87 | 1.41 | 1.55 | .66 | .45 | .53 AMP |
| | | | | 349.33 | 48.83 | 138.84 | 174.86 | 221.73 | 256.39 | 248.93 | 316.56 PHASE |
| 133 | .98 | 9.92 | 608 | 6.28 | 1.45 | .98 | 1.92 | 2.83 | .75 | .43 | .59 AMP |
| | | | | 355.25 | 47.88 | 147.93 | 188.24 | 232.49 | 273.58 | 263.98 | 319.62 PHASE |
| 134 | -.97 | 11.56 | 608 | 7.18 | 1.81 | 1.46 | 2.46 | 2.32 | .88 | .97 | .74 AMP |
| | | | | 358.98 | 47.15 | 152.53 | 181.91 | 236.86 | 268.58 | 269.55 | 314.27 PHASE |
| 135 | -2.98 | 13.18 | 608 | 8.42 | 2.25 | 2.88 | 2.84 | 2.58 | 1.84 | .47 | .86 AMP |
| | | | | 357.69 | 44.82 | 142.69 | 168.16 | 224.87 | 252.66 | 241.43 | 281.15 PHASE |
| 136 | -5.26 | 15.38 | 607 | 18.38 | 2.78 | 2.54 | 2.59 | 2.49 | 1.38 | .73 | 1.13 AMP |
| | | | | 359.71 | 58.19 | 163.14 | 191.65 | 255.51 | 269.83 | 238.45 | 277.79 PHASE |
| 137 | -7.88 | 19.22 | 608 | 12.91 | 3.87 | 3.88 | 2.25 | 2.61 | 1.68 | 1.18 | 1.61 AMP |
| | | | | .47 | 54.21 | 188.94 | 227.89 | 282.48 | 276.84 | 244.85 | 278.19 PHASE |
| 138 | -9.22 | 28.88 | 604 | 14.58 | 3.17 | 3.85 | 2.19 | 2.44 | 2.14 | 1.84 | 2.24 AMP |
| | | | | 357.33 | 48.59 | 281.87 | 245.16 | 275.11 | 253.61 | 235.88 | 265.14 PHASE |
| 139 | 5.16 | 5.25 | 608 | 4.24 | .76 | .28 | .69 | .53 | .16 | .18 | .18 AMP |
| | | | | 343.64 | 66.98 | 81.58 | 188.84 | 243.19 | 323.89 | 287.57 | 358.37 PHASE |
| 140 | 3.48 | 6.22 | 608 | 4.78 | .82 | .31 | .87 | .79 | .28 | .15 | .28 AMP |
| | | | | 348.81 | 49.88 | 188.28 | 179.38 | 225.69 | 278.92 | 216.13 | 387.86 PHASE |
| 141 | 1.63 | 7.55 | 608 | 5.56 | .94 | .56 | 1.19 | 1.19 | .36 | .89 | .25 AMP |
| | | | | 354.21 | 42.49 | 135.44 | 183.14 | 232.45 | 283.88 | 237.84 | 297.38 PHASE |
| 142 | -.25 | 8.98 | 608 | 6.36 | 1.16 | .89 | 1.41 | 1.48 | .43 | .83 | .28 AMP |
| | | | | 357.44 | 38.92 | 139.88 | 178.76 | 238.53 | 267.88 | 341.81 | 284.63 PHASE |
| 143 | -2.31 | 18.38 | 608 | 7.37 | 1.45 | 1.28 | 1.62 | 1.56 | .59 | .11 | .33 AMP |
| | | | | 359.88 | 39.71 | 141.75 | 169.52 | 226.23 | 252.17 | 47.38 | 258.56 PHASE |
| 144 | -4.28 | 11.76 | 609 | 8.44 | 1.82 | 1.63 | 1.83 | 1.67 | .18 | .18 | .45 AMP |
| | | | | 1.14 | 48.11 | 148.93 | 158.11 | 218.88 | 241.62 | 58.79 | 244.45 PHASE |
| 145 | -6.48 | 13.51 | 606 | 18.19 | 2.22 | 1.96 | 1.95 | 1.67 | 1.87 | .81 | .62 AMP |
| | | | | 2.18 | 45.26 | 147.79 | 154.89 | 218.88 | 238.38 | 235.89 | 242.75 PHASE |

TABLE VII.- Continued

(a) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 7 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 19.41 | 8.85 | 608 | 5.21 | 3.18 | 1.84 | .53 | .67 | .51 | .53 | 1.14 AMP |
| | | | | 126.32 | 298.83 | 317.88 | 284.59 | 217.84 | 86.36 | 8.11 | 174.32 PHASE |
| 109 | 20.59 | 9.64 | 608 | 5.95 | 3.35 | 2.61 | .65 | .48 | .51 | .47 | 1.55 AMP |
| | | | | 132.54 | 285.75 | 327.23 | 307.86 | 222.57 | 74.85 | 4.44 | 172.17 PHASE |
| 110 | 21.38 | 10.24 | 607 | 6.49 | 4.87 | 3.38 | .81 | .15 | .68 | .33 | 1.85 AMP |
| | | | | 143.89 | 298.95 | 339.84 | 331.45 | 248.28 | 181.81 | 69.31 | 199.49 PHASE |
| 111 | 22.18 | 12.01 | 607 | 7.44 | 6.62 | 3.93 | .92 | .08 | .75 | .38 | 1.28 AMP |
| | | | | 141.81 | 288.68 | 327.86 | 328.34 | 166.73 | 69.88 | 65.85 | 165.28 PHASE |
| 112 | 23.15 | 13.58 | 606 | 8.12 | 4.99 | 4.38 | .93 | .35 | .91 | .47 | 1.72 AMP |
| | | | | 145.54 | 286.05 | 336.28 | 334.25 | 126.59 | 98.76 | 85.21 | 185.45 PHASE |
| 113 | 24.35 | 15.04 | 605 | 9.24 | 5.35 | 4.77 | 1.04 | .24 | 1.11 | .44 | 1.77 AMP |
| | | | | 144.17 | 288.14 | 333.84 | 329.49 | 145.28 | 71.87 | 89.84 | 168.37 PHASE |
| 114 | 25.64 | 16.94 | 603 | 10.49 | 5.37 | 5.82 | 1.16 | .82 | .96 | .83 | 2.34 AMP |
| | | | | 148.19 | 288.89 | 351.86 | 358.13 | 211.38 | 187.28 | 337.11 | 226.88 PHASE |
| 115 | 26.86 | 17.55 | 607 | 11.93 | 5.93 | 4.77 | 1.15 | .32 | .94 | .71 | 1.98 AMP |
| | | | | 143.76 | 279.63 | 336.73 | 334.19 | 328.58 | 52.76 | 357.85 | 189.28 PHASE |
| 116 | 27.42 | 19.35 | 604 | 12.32 | 6.95 | 4.31 | .56 | .27 | .99 | .75 | 2.46 AMP |
| | | | | 143.14 | 287.86 | 328.78 | 359.52 | 351.34 | 53.88 | 98.86 | 159.35 PHASE |
| 117 | 27.61 | 19.59 | 608 | 12.37 | 6.89 | 3.27 | .14 | .59 | 1.87 | .98 | 2.68 AMP |
| | | | | 143.76 | 297.47 | 336.52 | 321.83 | 316.28 | 52.84 | 115.67 | 189.41 PHASE |
| 118 | 28.18 | 22.86 | 608 | 12.94 | 6.98 | 2.26 | .55 | .73 | 1.23 | 1.58 | 3.13 AMP |
| | | | | 139.71 | 292.67 | 386.87 | 251.54 | 316.98 | 52.87 | 125.84 | 157.28 PHASE |
| 119 | 18.82 | 18.47 | 609 | 6.69 | 4.46 | 1.33 | .52 | .72 | .38 | .53 | .59 AMP |
| | | | | 125.24 | 281.52 | 335.88 | 272.18 | 219.98 | 93.87 | 9.75 | 282.31 PHASE |
| 120 | 18.92 | 12.53 | 608 | 7.53 | 5.15 | 1.78 | .54 | .56 | .35 | .87 | .87 AMP |
| | | | | 137.95 | 291.82 | 18.55 | 388.88 | 249.11 | 132.73 | 41.53 | 219.23 PHASE |
| 121 | 28.03 | 13.48 | 608 | 8.33 | 5.52 | 2.38 | .68 | .38 | .23 | .28 | 1.85 AMP |
| | | | | 148.17 | 284.18 | 7.11 | 382.47 | 268.15 | 126.88 | 389.41 | 185.22 PHASE |
| 122 | 21.15 | 14.69 | 608 | 9.45 | 5.88 | 2.92 | .67 | .53 | .85 | .28 | 1.12 AMP |
| | | | | 138.84 | 273.33 | 355.78 | 298.27 | 263.25 | 11.44 | 261.21 | 156.73 PHASE |
| 123 | 22.38 | 15.72 | 607 | 10.47 | 6.12 | 3.55 | .93 | .78 | .19 | .24 | .77 AMP |
| | | | | 142.54 | 277.15 | 5.75 | 312.69 | 384.58 | .65 | 322.52 | 236.58 PHASE |
| 124 | 23.82 | 17.28 | 606 | 11.92 | 6.44 | 3.47 | .83 | .79 | .65 | .78 | 1.18 AMP |
| | | | | 144.58 | 278.37 | 18.57 | 321.37 | 322.16 | 358.68 | 18.72 | 312.24 PHASE |
| 125 | 24.94 | 17.77 | 609 | 12.58 | 6.47 | 4.24 | .99 | 1.81 | 1.88 | 1.83 | 1.44 AMP |
| | | | | 139.38 | 271.68 | 349.83 | 317.83 | 318.85 | 5.42 | 36.58 | 298.33 PHASE |
| 126 | 26.01 | 19.38 | 608 | 13.84 | 7.57 | 3.53 | .63 | 1.11 | 1.14 | .98 | 1.45 AMP |
| | | | | 143.75 | 287.24 | 346.83 | 358.38 | 11.16 | 48.25 | 87.43 | 324.32 PHASE |
| 127 | 26.39 | 21.81 | 605 | 12.91 | 9.18 | 3.59 | .25 | .59 | .56 | .37 | 2.85 AMP |
| | | | | 146.22 | 389.47 | 342.18 | 48.25 | 38.21 | 62.26 | 23.77 | 325.87 PHASE |
| 128 | 26.46 | 21.25 | 607 | 12.92 | 8.81 | 2.32 | .53 | .84 | .76 | .43 | 2.83 AMP |
| | | | | 138.98 | 382.42 | 338.67 | 189.71 | 318.25 | 18.28 | 17.91 | 248.54 PHASE |
| 129 | 28.44 | 9.61 | 608 | 5.86 | 3.88 | 2.32 | .39 | .74 | .47 | .65 | 1.41 AMP |
| | | | | 126.76 | 283.79 | 346.91 | 388.98 | 215.43 | 86.82 | 28.86 | 178.93 PHASE |
| 130 | 21.59 | 18.72 | 609 | 6.43 | 3.32 | 3.12 | .52 | .74 | .65 | .51 | 1.68 AMP |
| | | | | 135.81 | 286.92 | 351.37 | 316.98 | 228.52 | 187.94 | 39.98 | 198.33 PHASE |
| 131 | 22.71 | 12.24 | 608 | 7.32 | 3.77 | 4.86 | .78 | .67 | .84 | .15 | 1.74 AMP |
| | | | | 148.88 | 285.47 | 346.97 | 328.94 | 194.38 | 117.31 | 23.86 | 181.28 PHASE |
| 132 | 23.78 | 14.71 | 609 | 8.13 | 4.28 | 4.81 | .84 | .75 | 1.11 | .89 | 2.51 AMP |
| | | | | 141.22 | 279.63 | 339.78 | 319.85 | 158.36 | 93.17 | 118.18 | 149.32 PHASE |
| 133 | 24.94 | 16.72 | 608 | 8.95 | 4.47 | 5.54 | .95 | .94 | 1.27 | .38 | 2.99 AMP |
| | | | | 145.86 | 284.68 | 345.82 | 334.36 | 155.85 | 99.86 | 186.77 | 155.82 PHASE |
| 134 | 26.14 | 18.79 | 608 | 9.96 | 4.72 | 5.95 | 1.89 | .88 | 1.54 | .52 | 3.58 AMP |
| | | | | 148.63 | 283.95 | 349.21 | 341.86 | 147.47 | 98.81 | 211.68 | 154.41 PHASE |
| 135 | 27.47 | 28.53 | 608 | 11.87 | 4.59 | 6.37 | 1.18 | .83 | 1.79 | .59 | 3.91 AMP |
| | | | | 146.82 | 274.95 | 348.69 | 338.66 | 116.52 | 65.81 | 197.98 | 124.31 PHASE |
| 136 | 28.72 | 21.51 | 607 | 12.16 | 4.76 | 5.46 | .59 | .81 | 1.66 | .37 | 3.95 AMP |
| | | | | 148.27 | 276.14 | 342.94 | 319.33 | 137.28 | 78.43 | 233.26 | 129.17 PHASE |
| 137 | 29.73 | 21.52 | 608 | 12.66 | 5.88 | 3.67 | .69 | .71 | 1.51 | .43 | 4.41 AMP |
| | | | | 149.84 | 288.89 | 338.58 | 221.13 | 157.88 | 67.18 | 148.72 | 129.62 PHASE |
| 138 | 38.87 | 21.84 | 604 | 12.86 | 5.69 | 3.83 | 1.38 | .62 | 1.26 | 1.38 | 4.92 AMP |
| | | | | 145.86 | 277.39 | 295.18 | 217.77 | 151.34 | 64.28 | 142.55 | 117.57 PHASE |
| 139 | 22.94 | 18.35 | 608 | 6.59 | 3.82 | 3.61 | .43 | .49 | .39 | .29 | 1.87 AMP |
| | | | | 139.14 | 283.58 | 348.88 | 388.74 | 289.84 | 119.34 | 329.69 | 177.86 PHASE |
| 140 | 23.96 | 12.13 | 608 | 7.35 | 3.36 | 4.42 | .46 | .57 | .42 | .11 | 1.22 AMP |
| | | | | 148.75 | 279.82 | 336.17 | 297.41 | 188.68 | 185.46 | 259.78 | 134.75 PHASE |
| 141 | 25.15 | 13.96 | 608 | 8.19 | 3.69 | 4.99 | .45 | .64 | .42 | .26 | 1.44 AMP |
| | | | | 145.87 | 286.63 | 341.55 | 312.78 | 169.96 | 183.47 | 222.14 | 138.47 PHASE |
| 142 | 26.36 | 15.86 | 608 | 9.85 | 3.82 | 5.52 | .53 | .63 | .51 | .68 | 1.58 AMP |
| | | | | 148.87 | 289.57 | 342.37 | 322.44 | 154.99 | 78.61 | 226.99 | 118.25 PHASE |
| 143 | 27.72 | 18.45 | 608 | 9.97 | 3.89 | 6.81 | .62 | .67 | .76 | .96 | 1.85 AMP |
| | | | | 158.72 | 291.86 | 341.24 | 327.47 | 137.87 | 51.88 | 227.34 | 93.51 PHASE |
| 144 | 29.85 | 28.26 | 609 | 18.97 | 3.83 | 6.18 | .88 | .68 | 1.88 | 1.21 | 2.32 AMP |
| | | | | 151.22 | 291.88 | 338.29 | 325.81 | 128.82 | 37.19 | 238.11 | 77.53 PHASE |
| 145 | 38.48 | 21.24 | 606 | 12.38 | 4.83 | 5.47 | .73 | .91 | 1.23 | 1.16 | 2.62 AMP |
| | | | | 158.73 | 284.88 | 331.22 | 325.82 | 187.51 | 38.82 | 228.64 | 76.89 PHASE |

TABLE VII.- Continued

(a) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 7 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 29.88 | 19.85 | 608 | 5.68 | 1.12 | 1.36 | 1.47 | 4.42 | 4.85 | 1.19 | .97 AMP |
| | | | | 257.68 | 90.53 | 258.62 | 13.47 | 13.81 | 223.19 | 332.36 | 177.65 PHASE |
| 109 | 28.15 | 23.96 | 608 | 9.38 | 1.78 | 2.75 | 2.58 | 4.58 | 4.91 | 332.56 | .92 AMP |
| | | | | 277.31 | 97.83 | 278.34 | 2.34 | 24.22 | 219.74 | 25.45 | 159.46 PHASE |
| 110 | 27.72 | 25.11 | 607 | 11.91 | 3.48 | 1.81 | 3.47 | 5.57 | 3.39 | 2.46 | 1.85 AMP |
| | | | | 302.88 | 108.82 | 268.55 | 352.28 | 346.57 | 292.22 | 3.85 | 145.78 PHASE |
| 111 | 27.88 | 32.19 | 607 | 16.31 | 5.05 | 2.58 | 5.81 | 7.87 | 5.26 | 2.69 | 2.81 AMP |
| | | | | 311.97 | 102.38 | 195.37 | 332.82 | 344.86 | 334.12 | .66 | 113.37 PHASE |
| 112 | 25.79 | 39.94 | 606 | 21.84 | 6.38 | 4.58 | 6.38 | 8.89 | 6.35 | 2.84 | 2.81 AMP |
| | | | | 321.89 | 109.57 | 209.16 | 336.83 | .19 | 22.46 | 25.91 | 151.23 PHASE |
| 113 | 23.12 | 56.54 | 605 | 28.86 | 8.18 | 8.34 | 8.81 | 10.93 | 13.86 | 3.56 | .55 AMP |
| | | | | 329.94 | 106.42 | 218.61 | 328.91 | 2.85 | 37.86 | 254.96 | 136.26 PHASE |
| 114 | 19.62 | 73.92 | 603 | 37.78 | 9.73 | 12.14 | 12.22 | 11.46 | 17.18 | 7.18 | 1.81 AMP |
| | | | | 348.15 | 116.42 | 235.68 | 336.51 | 36.73 | 81.44 | 296.95 | 43.81 PHASE |
| 115 | 15.23 | 83.52 | 607 | 58.78 | 18.87 | 16.38 | 16.12 | 7.74 | 12.78 | 9.44 | 1.77 AMP |
| | | | | 348.82 | 113.23 | 235.57 | 316.76 | .85 | 26.88 | 288.88 | 183.84 PHASE |
| 116 | 18.91 | 102.93 | 604 | 61.63 | 11.19 | 17.78 | 13.17 | 6.28 | 29.27 | 6.68 | 2.52 AMP |
| | | | | 346.85 | 123.89 | 244.47 | 318.57 | 346.72 | 15.39 | 1.59 | 116.92 PHASE |
| 117 | 7.96 | 116.29 | 608 | 66.83 | 9.23 | 15.85 | 7.86 | 3.88 | 36.85 | 8.56 | 3.91 AMP |
| | | | | 351.86 | 135.24 | 262.81 | 314.79 | 49.46 | 48.85 | 83.28 | 129.73 PHASE |
| 118 | 6.36 | 137.82 | 608 | 72.93 | 8.37 | 11.66 | 4.76 | 5.73 | 48.58 | 14.99 | 6.83 AMP |
| | | | | 348.28 | 131.34 | 256.38 | 229.97 | 139.56 | 45.87 | 108.64 | 127.56 PHASE |
| 119 | 21.26 | 28.16 | 609 | 18.28 | 1.85 | 2.71 | 1.86 | 1.75 | 2.81 | .86 | .91 AMP |
| | | | | 254.92 | 84.58 | 234.37 | 359.47 | 11.84 | 183.32 | 358.79 | 167.45 PHASE |
| 120 | 28.73 | 25.81 | 608 | 13.52 | 3.44 | 3.81 | 1.13 | .65 | 7.66 | .61 | 1.48 AMP |
| | | | | 282.68 | 103.85 | 381.97 | 53.29 | 351.38 | 313.59 | 218.87 | 154.72 PHASE |
| 121 | 28.88 | 33.99 | 608 | 17.83 | 5.64 | 1.82 | 1.97 | 2.42 | 12.94 | .91 | 2.18 AMP |
| | | | | 295.97 | 104.13 | 386.13 | 4.98 | 386.73 | 329.16 | 19.67 | 147.21 PHASE |
| 122 | 18.74 | 41.79 | 608 | 22.48 | 8.16 | 1.95 | 4.24 | 4.99 | 11.44 | 3.96 | 1.12 AMP |
| | | | | 387.29 | 181.86 | 218.58 | 332.53 | 312.67 | 327.83 | 45.69 | 137.87 PHASE |
| 123 | 16.48 | 51.19 | 607 | 28.73 | 18.96 | 4.94 | 6.78 | 7.84 | 13.85 | 3.83 | 1.89 AMP |
| | | | | 322.65 | 109.35 | 229.98 | 341.47 | 357.48 | 355.96 | 115.68 | 315.48 PHASE |
| 124 | 12.23 | 64.43 | 606 | 38.55 | 12.59 | 9.38 | 9.88 | 6.47 | 11.88 | 4.15 | 3.31 AMP |
| | | | | 335.83 | 116.88 | 251.44 | 347.36 | 26.77 | 245.44 | 353.12 | 353.12 PHASE |
| 125 | 8.82 | 75.87 | 609 | 47.84 | 13.95 | 13.65 | 12.88 | 6.32 | 16.54 | 3.91 | 4.26 AMP |
| | | | | 335.73 | 108.27 | 241.12 | 321.88 | 335.65 | 338.26 | 255.21 | 312.32 PHASE |
| 126 | 4.71 | 98.81 | 608 | 68.18 | 14.12 | 16.23 | 13.38 | 8.18 | 24.77 | 3.17 | 5.89 AMP |
| | | | | 346.28 | 119.67 | 261.42 | 338.84 | 358.81 | .84 | 267.51 | 317.16 PHASE |
| 127 | 2.85 | 118.62 | 605 | 69.14 | 11.69 | 17.94 | 18.29 | 7.21 | 19.19 | 1.39 | 6.59 AMP |
| | | | | 353.82 | 144.68 | 281.35 | 331.12 | 32.64 | 61.59 | 296.87 | 314.83 PHASE |
| 128 | 1.53 | 113.24 | 607 | 73.34 | 9.52 | 16.18 | 6.17 | 3.26 | 21.89 | 6.73 | 5.88 AMP |
| | | | | 349.84 | 148.37 | 276.24 | 275.36 | 57.58 | 55.25 | 116.16 | 256.16 PHASE |
| 129 | 19.44 | 16.85 | 608 | 4.63 | .81 | 1.53 | 1.96 | 4.28 | 4.52 | 1.37 | 1.58 AMP |
| | | | | 279.24 | 106.59 | 274.57 | 15.93 | 13.67 | 169.93 | 315.25 | 167.87 PHASE |
| 130 | 18.71 | 19.71 | 609 | 7.19 | 1.64 | 2.99 | 2.88 | 2.86 | 4.78 | 1.87 | 1.69 AMP |
| | | | | 289.78 | 111.46 | 277.72 | 17.38 | 32.75 | 222.18 | 347.98 | 175.54 PHASE |
| 131 | 18.18 | 27.28 | 608 | 12.58 | 3.24 | 2.85 | 4.48 | 4.32 | 3.86 | 2.81 | 3.29 AMP |
| | | | | 387.83 | 188.57 | 266.54 | .87 | 336.89 | .82 | 358.43 | 156.56 PHASE |
| 132 | 18.86 | 35.88 | 609 | 17.92 | 4.49 | 4.13 | 5.93 | 7.86 | 6.74 | 1.18 | 3.82 AMP |
| | | | | 321.35 | 118.89 | 217.44 | 343.65 | 338.68 | 28.15 | 168.84 | 124.11 PHASE |
| 133 | 17.39 | 49.22 | 608 | 24.86 | 5.37 | 6.95 | 7.86 | 9.49 | 13.74 | 4.87 | 4.38 AMP |
| | | | | 338.84 | 116.11 | 227.69 | 358.65 | 356.75 | 39.15 | 238.67 | 138.33 PHASE |
| 134 | 16.13 | 63.55 | 608 | 32.85 | 6.28 | 18.83 | 18.13 | 18.83 | 28.88 | 9.11 | 5.17 AMP |
| | | | | 339.86 | 115.98 | 237.28 | 346.27 | 4.77 | 44.66 | 263.13 | 116.85 PHASE |
| 135 | 14.14 | 78.47 | 608 | 41.41 | 7.69 | 14.56 | 12.23 | 9.93 | 27.85 | 18.17 | 6.43 AMP |
| | | | | 339.95 | 185.92 | 238.25 | 329.25 | 352.78 | 27.49 | 254.83 | 78.44 PHASE |
| 136 | 12.18 | 84.59 | 607 | 52.78 | 9.48 | 15.56 | 18.42 | 4.17 | 28.38 | 18.31 | 8.82 AMP |
| | | | | 345.64 | 118.52 | 238.38 | 338.39 | 25.18 | 41.65 | 316.36 | 88.28 PHASE |
| 137 | 18.79 | 185.36 | 608 | 64.82 | 18.34 | 14.65 | 2.12 | 5.88 | 38.69 | 18.66 | 8.82 AMP |
| | | | | 352.72 | 117.61 | 245.49 | 18.32 | 153.92 | 58.51 | 69.47 | 86.66 PHASE |
| 138 | 9.75 | 119.46 | 604 | 71.78 | 18.12 | 11.34 | 8.38 | 9.23 | 26.84 | 28.27 | 8.52 AMP |
| | | | | 354.55 | 117.54 | 232.22 | 131.28 | 156.36 | 55.76 | 85.42 | 61.81 PHASE |
| 139 | 19.18 | 19.39 | 608 | 8.23 | 1.91 | 1.68 | 3.69 | 3.57 | 6.31 | 1.38 | 1.98 AMP |
| | | | | 313.34 | 189.83 | 258.78 | 28.18 | 326.22 | 388.28 | 44.78 | 134.54 PHASE |
| 140 | 18.43 | 28.95 | 608 | 13.39 | 2.77 | 3.52 | 4.88 | 5.38 | 7.69 | 1.87 | 2.87 AMP |
| | | | | 324.45 | 111.48 | 214.15 | 3.99 | 332.83 | 345.85 | 122.85 | 123.54 PHASE |
| 141 | 18.82 | 38.86 | 608 | 19.78 | 3.23 | 6.14 | 6.12 | 6.74 | 18.88 | 3.67 | 2.87 AMP |
| | | | | 335.75 | 128.23 | 224.39 | 5.74 | 354.18 | 289.38 | 289.38 | 98.21 PHASE |
| 142 | 17.48 | 48.55 | 608 | 26.65 | 3.59 | 9.18 | 8.81 | 5.88 | 12.27 | 5.51 | 2.25 AMP |
| | | | | 341.41 | 124.17 | 238.24 | .58 | 359.54 | 22.87 | 238.87 | 84.12 PHASE |
| 143 | 16.38 | 56.51 | 608 | 35.52 | 3.83 | 12.88 | 18.55 | 4.87 | 17.43 | 5.82 | 2.95 AMP |
| | | | | 345.12 | 121.78 | 233.34 | 351.76 | 351.95 | 2.16 | 254.18 | 55.58 PHASE |
| 144 | 14.43 | 69.88 | 609 | 45.52 | 4.33 | 16.28 | 12.33 | 2.99 | 26.17 | 4.25 | 3.31 AMP |
| | | | | 347.53 | 117.44 | 235.55 | 343.37 | 388.37 | 351.83 | 267.19 | 27.38 PHASE |
| 145 | 11.81 | 82.89 | 606 | 58.31 | 5.73 | 18.28 | 11.56 | 4.65 | 26.94 | 1.28 | 5.51 AMP |
| | | | | 352.76 | 117.75 | 236.28 | 324.96 | 253.25 | 358.68 | 75.38 | 359.59 PHASE |

TABLE VII.- Continued

(a) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 7 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 5.27 | 4.38 | 608 | 3.27 | .92 | .30 | .32 | .55 | .85 | .16 | .19 |
| 109 | 3.53 | 4.49 | 608 | 338.78 | 99.48 | 34.65 | 217.92 | 278.74 | 386.16 | 232.78 | 59.58 |
| 110 | 2.82 | 4.92 | 607 | 3.41 | .96 | .21 | .55 | .69 | .87 | .13 | .23 |
| 111 | .43 | 6.22 | 607 | 348.83 | 93.66 | 28.45 | 213.95 | 249.58 | 278.87 | 223.41 | 42.79 |
| 112 | -1.96 | 7.54 | 606 | 3.84 | .97 | .18 | .68 | .71 | .22 | .19 | .25 |
| 113 | -2.76 | 8.58 | 605 | 353.84 | 91.97 | 51.85 | 228.15 | 258.27 | 299.21 | 328.56 | 55.93 |
| 114 | -4.37 | 9.65 | 603 | 3.95 | .99 | .08 | 1.02 | .88 | .38 | .32 | .29 |
| 115 | -6.12 | 9.78 | 607 | 355.43 | 73.39 | 79.59 | 281.14 | 225.68 | 272.33 | 388.84 | 17.39 |
| 116 | -8.52 | 12.88 | 604 | 4.32 | 1.11 | .28 | 1.38 | 1.36 | .42 | .39 | .44 |
| 117 | -10.19 | 14.93 | 608 | 1.98 | 71.19 | 147.89 | 289.77 | 236.25 | 297.46 | 319.29 | 36.38 |
| 118 | -11.58 | 16.54 | 608 | 4.93 | 1.25 | .46 | 1.78 | 1.42 | .52 | .52 | .44 |
| 119 | 3.93 | 4.68 | 609 | 3.16 | 63.83 | 153.81 | 288.24 | 235.82 | 293.35 | 316.48 | 16.56 |
| 120 | 2.33 | 4.63 | 608 | 5.64 | 1.45 | .87 | 2.14 | 1.35 | .64 | .55 | .55 |
| 121 | .71 | 4.49 | 608 | 18.48 | 73.26 | 173.75 | 219.91 | 266.38 | 333.53 | 2.55 | 66.18 |
| 122 | -0.84 | 5.36 | 608 | 6.68 | 1.55 | 1.86 | 2.18 | .92 | .64 | .67 | .57 |
| 123 | -2.45 | 6.66 | 607 | 6.29 | 62.65 | 173.59 | 286.91 | 254.63 | 297.81 | 299.83 | 4.54 |
| 124 | -4.17 | 7.57 | 606 | 8.27 | 1.78 | 1.35 | 2.35 | 1.18 | 1.51 | 1.34 | .78 |
| 125 | -5.83 | 8.86 | 609 | .89 | 52.63 | 193.55 | 222.56 | 273.29 | 287.47 | 382.83 | 337.49 |
| 126 | -7.88 | 11.88 | 608 | 9.72 | 2.89 | 1.71 | 2.12 | .97 | 1.14 | 1.38 | .88 |
| 127 | -10.62 | 15.28 | 605 | 1.28 | 57.13 | 215.69 | 251.47 | 339.27 | 388.84 | 313.94 | 351.28 |
| 128 | -12.29 | 16.98 | 607 | 18.92 | 2.26 | 2.81 | 1.82 | .74 | 1.34 | 1.97 | 1.33 |
| 129 | 3.28 | 4.35 | 608 | 358.18 | 56.84 | 224.63 | 261.82 | 4.78 | 277.35 | 299.15 | 339.38 |
| 130 | 1.91 | 4.48 | 609 | 3.69 | 1.87 | .29 | .13 | .49 | .15 | .16 | .89 |
| 131 | .38 | 5.15 | 608 | 331.17 | 181.86 | 36.35 | 232.98 | 318.68 | 328.21 | 244.58 | 88.85 |
| 132 | -1.28 | 6.76 | 609 | 3.54 | 1.83 | .28 | .13 | .41 | .18 | .18 | .14 |
| 133 | -2.78 | 8.85 | 608 | 346.73 | 189.12 | 69.89 | 219.82 | 337.12 | 353.87 | 256.81 | 92.84 |
| 134 | -4.47 | 9.27 | 608 | 3.68 | 1.86 | .22 | .38 | .31 | .18 | .13 | .26 |
| 135 | -6.11 | 10.37 | 608 | 352.25 | 98.23 | 182.44 | 191.65 | 276.45 | 274.38 | 249.88 | 53.65 |
| 136 | -7.93 | 11.35 | 607 | 4.88 | 1.85 | .32 | .71 | .38 | .28 | .12 | .26 |
| 137 | -10.13 | 14.67 | 608 | 353.89 | 83.78 | 121.73 | 184.78 | 231.85 | 233.34 | 255.59 | 14.44 |
| 138 | -11.38 | 15.81 | 604 | 4.48 | 1.13 | .68 | 1.12 | .49 | .36 | .21 | .23 |
| 139 | .72 | 4.21 | 608 | 359.95 | 82.19 | 151.21 | 281.52 | 258.98 | 288.48 | 318.65 | 44.78 |
| 140 | -0.87 | 4.96 | 608 | 5.88 | 1.24 | .86 | 1.42 | .34 | .19 | .19 | .12 |
| 141 | -2.25 | 5.99 | 608 | 5.49 | 83.65 | 178.92 | 221.72 | 256.52 | 288.57 | 291.58 | 78.84 |
| 142 | -3.86 | 7.84 | 608 | 5.87 | 1.49 | .99 | 1.56 | .46 | .33 | .44 | .22 |
| 143 | -5.61 | 8.85 | 608 | 2.89 | 67.48 | 163.17 | 283.89 | 193.88 | 247.88 | 295.64 | 18.28 |
| 144 | -7.31 | 9.12 | 609 | 7.11 | 1.58 | .98 | 1.55 | .68 | .84 | .78 | .18 |
| 145 | -8.94 | 10.22 | 606 | 3.15 | 68.62 | 212.81 | 233.55 | 221.12 | 295.71 | 337.25 | 37.87 |
| | | | | 9.67 | 2.27 | .98 | 1.72 | 1.24 | 1.94 | 1.27 | .52 |
| | | | | 1.87 | 56.98 | 227.24 | 272.35 | 323.12 | 2.85 | 45.45 | 112.36 |
| | | | | 11.61 | 2.98 | 1.62 | 2.86 | 1.78 | 1.83 | 1.81 | .56 |
| | | | | 355.74 | 54.17 | 222.34 | 283.95 | 358.28 | 3.86 | 32.18 | 73.82 |
| | | | | 3.28 | .82 | .18 | .48 | .37 | .15 | .23 | .13 |
| | | | | 334.87 | 86.69 | 27.26 | 222.88 | 264.38 | 32.94 | 268.89 | 72.78 |
| | | | | 3.45 | .78 | .87 | .62 | .56 | .19 | .19 | .18 |
| | | | | 347.27 | 89.35 | 88.79 | 222.77 | 282.87 | 17.69 | 277.24 | 81.79 |
| | | | | 3.82 | .77 | .15 | .81 | .78 | .28 | .23 | .27 |
| | | | | 354.95 | 88.48 | 141.18 | 215.53 | 275.33 | 336.34 | 382.52 | 71.88 |
| | | | | 4.31 | .89 | .34 | 1.14 | 1.25 | .51 | .36 | .47 |
| | | | | 357.72 | 63.81 | 155.82 | 282.81 | 248.88 | 294.79 | 288.23 | 27.89 |
| | | | | 4.89 | .99 | .68 | 1.55 | 1.65 | .68 | .34 | .47 |
| | | | | 3.48 | 68.73 | 165.31 | 287.84 | 257.48 | 311.62 | 384.78 | 38.92 |
| | | | | 5.68 | 1.18 | .93 | 2.88 | 1.98 | .72 | .38 | .56 |
| | | | | 6.99 | 58.68 | 169.17 | 286.58 | 261.84 | 386.28 | 313.88 | 25.18 |
| | | | | 6.39 | 1.37 | 1.35 | 2.31 | 2.88 | .89 | .41 | .63 |
| | | | | 5.58 | 52.77 | 157.13 | 198.66 | 247.84 | 286.65 | 289.86 | 351.96 |
| | | | | 7.57 | 1.55 | 1.61 | 2.18 | 2.81 | 1.12 | .54 | .77 |
| | | | | 7.87 | 54.83 | 174.56 | 218.27 | 288.27 | 388.33 | 279.28 | 334.49 |
| | | | | 9.41 | 1.84 | 1.98 | 1.94 | 2.15 | 1.37 | 1.88 | 1.23 |
| | | | | 6.42 | 55.97 | 288.13 | 247.79 | 314.79 | 312.17 | 283.86 | 335.28 |
| | | | | 18.54 | 1.94 | 2.84 | 1.98 | 2.87 | 1.78 | 1.69 | 1.71 |
| | | | | 2.48 | 58.37 | 214.55 | 266.97 | 311.83 | 285.79 | 277.68 | 328.39 |
| | | | | 3.44 | .56 | .11 | .56 | .44 | .13 | .11 | .15 |
| | | | | 352.53 | 88.78 | 88.43 | 213.47 | 269.93 | 15.79 | 263.42 | 64.29 |
| | | | | 3.81 | .59 | .18 | .78 | .65 | .22 | .12 | .19 |
| | | | | 356.73 | 64.45 | 122.71 | 284.28 | 253.14 | 315.82 | 264.45 | 28.87 |
| | | | | 4.88 | .64 | .31 | .95 | .97 | .31 | .89 | .21 |
| | | | | 2.89 | 57.13 | 151.25 | 287.95 | 268.13 | 315.31 | 264.82 | 11.77 |
| | | | | 5.83 | .76 | .52 | 1.14 | 1.15 | .38 | .82 | .21 |
| | | | | 6.86 | 52.86 | 154.97 | 283.29 | 256.99 | 382.28 | 178.21 | 4.83 |
| | | | | 5.78 | .91 | .82 | 1.36 | 1.26 | .48 | .18 | .23 |
| | | | | 8.11 | 58.82 | 155.52 | 194.69 | 252.66 | 288.78 | 123.42 | 338.82 |
| | | | | 6.56 | 1.14 | 1.14 | 1.57 | 1.32 | .65 | .15 | .38 |
| | | | | 9.18 | 49.29 | 153.98 | 183.18 | 244.22 | 277.83 | 121.39 | 318.84 |
| | | | | 7.56 | 1.36 | 1.48 | 1.63 | 1.27 | .88 | .18 | .46 |
| | | | | 9.89 | 49.25 | 158.59 | 177.97 | 242.96 | 268.18 | 212.74 | 387.43 |

TABLE VII.- Continued

(a) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | -3.61 | 16.83 | 608 | 9.11 | 4.13 | 1.52 | 1.63 | 1.95 | .19 | .58 | 1.84 |
| | | | | 127.89 | 287.32 | 266.52 | 48.87 | 218.56 | 198.17 | 183.67 | 347.63 |
| 109 | -1.56 | 17.39 | 608 | 9.38 | 4.45 | 1.58 | 2.82 | 2.88 | .29 | .38 | 2.39 |
| | | | | 133.46 | 288.94 | 382.96 | 41.97 | 193.38 | 182.86 | 173.86 | 347.28 |
| 110 | .85 | 18.87 | 607 | 9.32 | 5.29 | 2.13 | 2.35 | 1.54 | .24 | .32 | 1.68 |
| | | | | 143.21 | 284.24 | 327.14 | 56.34 | 283.58 | 228.52 | 271.98 | 11.35 |
| 111 | 1.73 | 28.88 | 607 | 9.98 | 5.82 | 2.78 | 2.82 | 1.98 | .38 | .62 | 1.94 |
| | | | | 142.76 | 273.84 | 322.82 | 39.37 | 158.47 | 286.16 | 273.88 | 339.44 |
| 112 | 3.32 | 23.52 | 606 | 18.62 | 6.48 | 3.41 | 2.96 | 1.94 | .58 | .85 | 2.59 |
| | | | | 148.84 | 276.56 | 332.13 | 49.96 | 156.83 | 233.11 | 292.95 | 2.45 |
| 113 | 5.38 | 25.47 | 605 | 11.61 | 7.86 | 4.27 | 2.89 | 1.38 | .66 | 1.19 | 2.67 |
| | | | | 147.98 | 271.61 | 334.86 | 43.94 | 153.92 | 235.57 | 288.11 | 348.28 |
| 114 | 7.19 | 26.77 | 603 | 12.55 | 7.48 | 4.65 | 3.96 | 2.25 | .94 | .98 | 3.52 |
| | | | | 154.22 | 282.59 | 355.77 | 68.97 | 182.64 | 269.11 | 341.74 | 43.36 |
| 115 | 8.92 | 27.36 | 607 | 14.86 | 7.95 | 4.79 | 4.36 | .77 | 1.44 | .79 | 3.21 |
| | | | | 158.78 | 276.66 | 345.85 | 49.62 | 186.99 | 233.26 | 256.27 | 7.44 |
| 116 | 18.43 | 31.75 | 604 | 15.55 | 8.66 | 4.68 | 5.22 | 1.81 | 1.67 | 1.96 | 3.95 |
| | | | | 158.66 | 288.54 | 348.92 | 37.65 | 356.97 | 238.78 | 281.14 | 339.28 |
| 117 | 11.47 | 34.29 | 608 | 16.98 | 8.58 | 4.15 | 5.99 | 3.87 | 1.38 | 1.96 | 4.21 |
| | | | | 152.81 | 286.96 | 352.93 | 47.62 | 15.45 | 251.35 | 299.78 | 5.88 |
| 118 | 12.12 | 35.22 | 608 | 17.96 | 8.66 | 3.28 | 5.81 | 3.61 | 1.25 | 2.89 | 4.99 |
| | | | | 148.98 | 284.88 | 347.28 | 38.97 | 28.24 | 241.17 | 295.68 | 334.25 |
| 119 | -4.88 | 15.84 | 609 | 9.94 | 5.28 | 1.48 | .81 | 1.93 | .11 | .55 | .89 |
| | | | | 127.59 | 283.58 | 273.18 | 35.88 | 234.23 | 148.56 | 179.88 | 4.16 |
| 120 | -2.99 | 17.83 | 608 | 9.85 | 6.17 | 1.43 | 1.12 | 1.59 | .86 | .37 | 1.34 |
| | | | | 139.56 | 291.47 | 327.19 | 58.74 | 262.52 | 228.22 | 218.39 | 26.83 |
| 121 | -1.28 | 17.14 | 608 | 9.92 | 6.74 | 1.92 | 1.62 | .98 | .19 | .26 | 1.69 |
| | | | | 142.53 | 283.79 | 348.84 | 44.48 | 268.75 | 186.99 | 126.42 | 355.42 |
| 122 | .72 | 18.51 | 608 | 18.58 | 7.83 | 2.68 | 2.31 | .48 | .28 | .86 | 1.84 |
| | | | | 141.58 | 273.19 | 342.88 | 36.12 | 295.84 | 189.21 | 155.11 | 326.79 |
| 123 | 2.69 | 19.86 | 607 | 11.15 | 7.28 | 3.42 | 2.89 | 1.15 | .47 | .47 | 1.17 |
| | | | | 146.68 | 278.99 | 3.22 | 53.41 | 334.63 | 228.14 | 267.15 | 25.53 |
| 124 | 4.87 | 21.13 | 606 | 11.98 | 7.56 | 3.52 | 3.42 | 1.84 | .45 | .75 | 1.35 |
| | | | | 158.88 | 282.26 | 17.78 | 68.36 | 28.37 | 267.35 | 254.89 | 113.19 |
| 125 | 6.87 | 23.28 | 609 | 12.95 | 7.58 | 3.75 | 3.99 | 2.34 | .66 | 1.58 | 1.51 |
| | | | | 146.98 | 272.38 | 1.12 | 54.85 | 33.56 | 258.28 | 247.62 | 185.87 |
| 126 | 8.89 | 25.98 | 608 | 14.36 | 8.31 | 2.91 | 5.81 | 3.71 | .82 | 1.72 | 1.44 |
| | | | | 152.49 | 281.95 | 15.88 | 78.31 | 68.35 | 388.81 | 298.54 | 135.58 |
| 127 | 18.67 | 28.46 | 605 | 16.31 | 8.68 | 2.27 | 5.15 | 3.64 | .85 | .61 | 2.88 |
| | | | | 155.92 | 297.66 | 24.63 | 88.89 | 73.13 | 335.94 | 387.39 | 137.92 |
| 128 | 11.72 | 31.78 | 607 | 18.88 | 8.33 | 2.84 | 5.92 | 5.83 | .46 | .73 | 2.67 |
| | | | | 149.42 | 284.58 | 16.85 | 54.42 | 43.62 | 319.32 | 263.54 | 61.41 |
| 129 | -2.96 | 15.85 | 608 | 9.41 | 3.84 | 1.55 | 1.58 | 1.77 | .17 | .64 | 2.88 |
| | | | | 128.68 | 288.77 | 294.24 | 54.81 | 217.32 | 182.92 | 192.97 | 355.88 |
| 130 | -1.19 | 17.85 | 609 | 9.67 | 4.37 | 2.11 | 1.84 | 2.47 | .24 | .45 | 2.35 |
| | | | | 136.78 | 287.38 | 328.94 | 63.87 | 225.56 | 225.18 | 281.76 | 7.88 |
| 131 | .69 | 19.38 | 608 | 18.29 | 5.84 | 2.84 | 2.31 | 2.93 | .25 | .19 | 2.43 |
| | | | | 141.35 | 283.74 | 332.62 | 61.18 | 212.36 | 236.28 | 169.81 | 359.98 |
| 132 | 2.48 | 23.85 | 609 | 18.96 | 5.88 | 3.75 | 2.96 | 3.97 | .58 | .25 | 3.48 |
| | | | | 142.43 | 274.15 | 332.45 | 46.83 | 177.89 | 228.18 | 327.98 | 328.25 |
| 133 | 4.41 | 25.47 | 608 | 11.88 | 6.54 | 4.69 | 3.48 | 4.98 | .55 | .67 | 3.85 |
| | | | | 147.57 | 275.91 | 342.76 | 56.56 | 178.39 | 242.88 | 346.13 | 335.97 |
| 134 | 6.39 | 28.15 | 608 | 12.88 | 7.17 | 5.48 | 4.17 | 5.51 | .76 | .91 | 4.54 |
| | | | | 158.69 | 274.69 | 349.56 | 59.81 | 179.93 | 238.87 | 357.15 | 333.96 |
| 135 | 8.46 | 38.77 | 608 | 14.12 | 7.46 | 6.14 | 4.65 | 5.59 | 1.82 | .85 | 4.95 |
| | | | | 149.28 | 266.18 | 344.55 | 45.32 | 165.22 | 212.88 | 337.54 | 383.88 |
| 136 | 18.33 | 31.28 | 607 | 15.41 | 8.89 | 6.38 | 4.96 | 4.48 | 1.85 | .49 | 4.94 |
| | | | | 153.42 | 269.18 | 351.18 | 45.91 | 176.68 | 221.18 | 336.43 | 388.58 |
| 137 | 12.88 | 32.84 | 608 | 16.73 | 8.42 | 5.74 | 5.24 | 2.85 | .86 | 1.28 | 5.74 |
| | | | | 155.88 | 272.17 | 353.58 | 35.25 | 169.51 | 234.31 | 296.88 | 389.62 |
| 138 | 12.68 | 33.76 | 604 | 17.13 | 8.53 | 4.59 | 5.83 | 1.83 | .49 | .28 | 6.71 |
| | | | | 153.83 | 271.39 | 337.31 | 15.89 | 113.39 | 284.61 | 298.62 | 295.48 |
| 139 | .66 | 14.78 | 608 | 9.39 | 3.73 | 2.24 | 1.57 | 1.98 | .89 | .42 | 1.49 |
| | | | | 148.12 | 283.58 | 321.83 | 63.54 | 218.98 | 98.22 | 131.64 | 352.45 |
| 140 | 2.46 | 16.39 | 608 | 9.92 | 4.39 | 2.98 | 1.91 | 2.17 | .13 | .23 | 1.71 |
| | | | | 141.73 | 275.38 | 324.87 | 49.83 | 183.83 | 138.82 | 61.79 | 313.46 |
| 141 | 4.44 | 18.49 | 608 | 18.76 | 5.85 | 3.73 | 2.25 | 3.82 | .11 | .49 | 1.95 |
| | | | | 146.87 | 276.42 | 339.23 | 52.65 | 179.58 | 176.23 | 228.78 | 311.31 |
| 142 | 6.48 | 28.32 | 608 | 11.78 | 5.67 | 4.68 | 2.48 | 3.63 | .28 | .87 | 1.99 |
| | | | | 158.12 | 274.53 | 343.41 | 58.36 | 174.75 | 282.23 | 32.66 | 298.65 |
| 143 | 8.59 | 23.86 | 608 | 12.86 | 6.25 | 5.58 | 2.67 | 4.11 | .36 | 1.88 | 2.31 |
| | | | | 152.63 | 271.72 | 344.81 | 46.68 | 173.73 | 223.82 | 34.19 | 271.18 |
| 144 | 18.88 | 25.36 | 609 | 14.83 | 6.78 | 6.19 | 2.98 | 4.44 | .66 | 1.38 | 2.91 |
| | | | | 154.88 | 266.83 | 346.25 | 48.17 | 167.69 | 232.16 | 37.18 | 254.72 |
| 145 | 12.92 | 27.36 | 606 | 15.65 | 7.31 | 6.19 | 3.57 | 4.34 | .95 | 1.13 | 3.89 |
| | | | | 155.82 | 263.54 | 345.48 | 33.27 | 168.92 | 227.72 | 28.69 | 253.66 |

TABLE VII.- Continued

(a) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 7 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 16.21 | 12.69 | 608 | 3.98 | 2.18 | 1.42 | 1.44 | .55 | 1.58 | .23 | .77 AMP |
| | | | | 153.46 | 285.91 | 269.92 | 27.93 | 389.69 | 216.86 | 289.68 | 337.86 PHASE |
| 109 | 16.98 | 14.35 | 608 | 3.57 | 1.94 | 1.81 | 1.91 | .44 | 2.88 | .17 | 1.21 AMP |
| | | | | 172.95 | 279.45 | 289.81 | 19.65 | 53.36 | 287.82 | 116.55 | 346.65 PHASE |
| 110 | 18.79 | 12.58 | 607 | 2.82 | 1.85 | 1.78 | 2.34 | 1.35 | 1.14 | .94 | .84 AMP |
| | | | | 195.56 | 285.83 | 318.88 | 22.23 | 321.67 | 277.88 | 346.78 | 52.58 PHASE |
| 111 | 20.34 | 14.94 | 607 | 2.38 | 1.48 | 1.73 | 3.83 | 1.85 | 1.78 | 1.86 | .97 AMP |
| | | | | 216.47 | 271.98 | 292.66 | 357.87 | 358.48 | 336.52 | 343.74 | 18.71 PHASE |
| 112 | 21.86 | 19.36 | 606 | 2.35 | 1.35 | 2.29 | 3.59 | 2.12 | 2.21 | .69 | 1.18 AMP |
| | | | | 244.29 | 278.89 | 291.59 | .41 | 29.93 | 28.81 | 358.94 | 21.58 PHASE |
| 113 | 21.97 | 21.25 | 605 | 2.84 | 1.89 | 2.98 | 4.44 | 3.87 | 5.13 | 1.99 | 1.59 AMP |
| | | | | 278.28 | 261.12 | 275.21 | 344.87 | 23.86 | 37.18 | 246.88 | 341.74 PHASE |
| 114 | 22.43 | 25.95 | 603 | 4.12 | .73 | 3.96 | 5.39 | 3.88 | 6.69 | 3.36 | 3.84 AMP |
| | | | | 384.23 | 267.42 | 285.52 | 359.13 | 47.73 | 88.97 | 287.99 | 29.97 PHASE |
| 115 | 22.52 | 27.92 | 607 | 6.31 | .72 | 5.64 | 6.95 | 3.49 | 4.66 | 4.45 | 2.66 AMP |
| | | | | 314.84 | 266.61 | 268.22 | 333.29 | 359.92 | 29.54 | 271.63 | 9.28 PHASE |
| 116 | 21.94 | 47.22 | 604 | 8.62 | .94 | 7.88 | 7.66 | 5.29 | 11.18 | 2.96 | 2.56 AMP |
| | | | | 328.68 | 281.82 | 264.88 | 336.27 | 357.18 | 13.88 | 335.73 | 358.13 PHASE |
| 117 | 21.27 | 48.11 | 608 | 18.88 | .86 | 6.96 | 6.58 | 5.25 | 14.13 | 2.78 | 3.13 AMP |
| | | | | 337.49 | 284.78 | 274.42 | 358.97 | 31.86 | 37.64 | 56.18 | 27.68 PHASE |
| 118 | 28.85 | 58.49 | 608 | 11.86 | 1.36 | 6.82 | 4.11 | 4.87 | 15.62 | 4.53 | 2.35 AMP |
| | | | | 337.62 | 253.23 | 263.58 | 346.68 | 58.61 | 43.28 | 85.15 | 4.51 PHASE |
| 119 | 18.98 | 11.98 | 609 | 4.65 | 2.52 | 1.47 | 7.88 | 1.87 | .86 | .24 | .24 AMP |
| | | | | 163.87 | 284.23 | 256.78 | 28.84 | 254.34 | 168.35 | 171.86 | 33.27 PHASE |
| 120 | 12.78 | 12.83 | 608 | 3.84 | 2.51 | 1.54 | .93 | 1.17 | 2.91 | .57 | 7.78 AMP |
| | | | | 188.98 | 294.93 | 314.24 | 58.25 | 268.99 | 385.52 | 282.32 | 68.88 PHASE |
| 121 | 14.38 | 15.89 | 608 | 3.32 | 1.96 | 1.58 | 1.43 | 1.37 | 4.86 | .33 | .52 AMP |
| | | | | 288.91 | 283.35 | 338.78 | 24.56 | 283.36 | 324.16 | 48.12 | 39.45 PHASE |
| 122 | 15.88 | 17.39 | 608 | 2.92 | 1.38 | 1.25 | 2.19 | 2.17 | 4.36 | 1.66 | .88 AMP |
| | | | | 232.84 | 259.54 | 328.22 | 357.87 | 384.86 | 323.86 | 48.89 | 318.66 PHASE |
| 123 | 17.28 | 19.21 | 607 | 2.87 | .72 | 1.58 | 3.18 | 3.52 | 5.11 | 1.35 | 1.28 AMP |
| | | | | 268.52 | 232.64 | 315.51 | 2.81 | 342.97 | 348.36 | 112.93 | 351.45 PHASE |
| 124 | 18.11 | 21.84 | 606 | 4.18 | .71 | 2.36 | 4.85 | 4.18 | 4.99 | 2.18 | 1.59 AMP |
| | | | | 383.99 | 288.57 | 295.72 | 1.91 | 14.48 | 354.57 | 244.21 | 21.13 PHASE |
| 125 | 18.66 | 29.95 | 609 | 6.81 | .61 | 4.88 | 5.37 | 4.59 | 7.83 | 2.28 | 1.25 AMP |
| | | | | 312.19 | 174.75 | 273.44 | 335.56 | 348.96 | 327.11 | 253.27 | 349.73 PHASE |
| 126 | 18.87 | 37.76 | 608 | 8.59 | .55 | 5.51 | 6.84 | 6.44 | 18.94 | 1.53 | .88 AMP |
| | | | | 327.26 | 268.89 | 279.66 | 349.78 | 17.44 | 358.34 | 291.98 | 338.88 PHASE |
| 127 | 19.33 | 43.57 | 605 | 11.12 | 1.78 | 6.35 | 5.25 | 6.51 | 8.84 | .16 | .88 AMP |
| | | | | 337.22 | 323.83 | 289.79 | 1.15 | 46.86 | 57.38 | 132.79 | 278.83 PHASE |
| 128 | 18.39 | 42.72 | 607 | 12.99 | 1.17 | 6.47 | 4.22 | 6.52 | 18.81 | 3.37 | .21 AMP |
| | | | | 337.59 | 313.54 | 271.32 | 337.92 | 35.21 | 58.63 | 186.96 | 381.91 PHASE |
| 129 | 11.34 | 12.19 | 608 | 4.83 | 2.83 | 1.58 | 1.53 | .66 | 1.83 | .52 | .72 AMP |
| | | | | 144.57 | 285.63 | 295.36 | 38.31 | 318.61 | 165.76 | 249.78 | 8.15 PHASE |
| 130 | 11.78 | 13.51 | 609 | 3.63 | 2.83 | 2.21 | 2.84 | .68 | 2.86 | .24 | .91 AMP |
| | | | | 162.84 | 286.32 | 386.93 | 37.87 | 236.31 | 215.13 | 273.95 | 28.63 PHASE |
| 131 | 13.21 | 11.85 | 608 | 2.68 | 1.81 | 2.48 | 2.73 | 1.48 | 1.22 | .57 | .77 AMP |
| | | | | 184.53 | 284.81 | 316.33 | 24.65 | 259.41 | 353.48 | 342.88 | 59.24 PHASE |
| 132 | 15.48 | 15.65 | 609 | 1.74 | 1.68 | 2.65 | 3.66 | .58 | 2.35 | .69 | .99 AMP |
| | | | | 288.18 | 269.82 | 388.92 | 6.17 | 286.21 | 32.67 | 159.85 | 4.58 PHASE |
| 133 | 17.11 | 17.97 | 608 | 1.68 | 1.61 | 3.54 | 4.58 | .69 | 5.12 | 1.83 | 1.13 AMP |
| | | | | 256.41 | 268.85 | 388.58 | 9.88 | 47.39 | 48.29 | 221.87 | 8.92 PHASE |
| 134 | 18.77 | 21.97 | 608 | 2.41 | 1.48 | 4.57 | 5.61 | 1.41 | 7.75 | 3.84 | 1.77 AMP |
| | | | | 297.12 | 265.43 | 295.14 | 6.86 | 53.75 | 46.42 | 253.48 | 5.73 PHASE |
| 135 | 19.84 | 28.45 | 608 | 3.98 | 1.84 | 5.55 | 6.55 | 1.68 | 11.83 | 4.11 | 2.87 AMP |
| | | | | 389.38 | 258.24 | 281.14 | 348.84 | 45.11 | 27.66 | 243.38 | 348.33 PHASE |
| 136 | 28.98 | 32.56 | 607 | 6.24 | .48 | 6.21 | 6.62 | 2.85 | 11.43 | 3.95 | 2.58 AMP |
| | | | | 325.57 | 238.78 | 277.49 | 354.87 | 91.56 | 43.21 | 384.78 | 1.42 PHASE |
| 137 | 21.68 | 39.98 | 608 | 9.82 | .62 | 6.42 | 5.84 | 3.68 | 12.41 | 4.23 | 2.78 AMP |
| | | | | 338.38 | 159.69 | 272.66 | 6.62 | 119.98 | 58.98 | 58.98 | 11.29 PHASE |
| 138 | 21.57 | 44.73 | 604 | 18.35 | .99 | 6.75 | 2.74 | 4.62 | 11.26 | 7.73 | 3.93 AMP |
| | | | | 343.88 | 181.45 | 252.48 | 13.53 | 114.99 | 56.66 | 75.18 | 339.41 PHASE |
| 139 | 13.87 | 18.95 | 608 | 2.76 | 1.65 | 2.88 | 2.22 | 1.28 | 2.38 | .64 | .75 AMP |
| | | | | 162.16 | 284.24 | 387.28 | 35.87 | 266.87 | 293.15 | 68.79 | 48.39 PHASE |
| 140 | 14.54 | 11.32 | 608 | 1.63 | 1.61 | 2.23 | 2.86 | .86 | 2.86 | 1.81 | .31 AMP |
| | | | | 179.91 | 273.47 | 297.13 | 18.76 | 281.69 | 341.29 | 188.88 | 3.35 PHASE |
| 141 | 16.22 | 13.99 | 608 | .87 | 1.67 | 2.89 | 3.68 | 3.48 | 3.78 | 1.41 | .72 AMP |
| | | | | 237.86 | 274.93 | 297.48 | 18.77 | 353.38 | 13.94 | 197.61 | 344.21 PHASE |
| 142 | 17.87 | 14.81 | 608 | 1.68 | 1.77 | 3.95 | 4.37 | .59 | 4.68 | 2.88 | .73 AMP |
| | | | | 297.81 | 273.66 | 293.54 | 11.59 | 92.55 | 21.53 | 228.28 | 332.55 PHASE |
| 143 | 19.63 | 28.31 | 608 | 3.14 | 1.76 | 5.18 | 5.48 | .91 | 6.51 | 1.97 | .92 AMP |
| | | | | 313.71 | 277.49 | 287.87 | 2.57 | 135.88 | 359.47 | 248.83 | 386.44 PHASE |
| 144 | 28.79 | 26.97 | 609 | 4.98 | 1.66 | 6.12 | 6.28 | 1.33 | 9.91 | 1.14 | 1.56 AMP |
| | | | | 321.59 | 278.78 | 281.88 | 352.86 | 168.68 | 346.88 | 273.28 | 288.94 PHASE |
| 145 | 21.98 | 31.47 | 606 | 7.11 | 1.45 | 6.67 | 6.11 | 1.98 | 18.25 | 1.15 | 2.82 AMP |
| | | | | 333.19 | 277.42 | 272.85 | 348.76 | 178.57 | 355.38 | 59.84 | 296.87 PHASE |

TABLE VII.- Continued

(a) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 7 | | | | S | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | 1.07 | 3.46 | 608 | 2.05 | .93 | .29 | .21 | .29 | .06 | .16 | .18 AMP |
| | | | | 315.99 | 98.52 | 47.24 | 244.57 | 278.18 | 24.82 | 343.03 | 149.43 PHASE |
| 109 | .34 | 3.54 | 608 | 2.04 | .89 | .19 | .34 | .37 | .08 | .13 | .27 AMP |
| | | | | 329.63 | 97.57 | 48.05 | 231.15 | 262.51 | 7.10 | 9.77 | 141.52 PHASE |
| 110 | -1.05 | 3.53 | 607 | 2.10 | .90 | .17 | .38 | .32 | .10 | .14 | .17 AMP |
| | | | | 348.59 | 99.82 | 66.71 | 238.04 | 272.94 | 2.77 | 37.19 | 146.67 PHASE |
| 111 | -2.48 | 4.21 | 607 | 2.47 | .86 | .12 | .57 | .48 | .12 | .16 | .21 AMP |
| | | | | 352.87 | 86.42 | 78.97 | 210.49 | 237.43 | 324.24 | 8.25 | 113.87 PHASE |
| 112 | -3.69 | 4.93 | 606 | 2.86 | .87 | .21 | .76 | .68 | .20 | .17 | .25 AMP |
| | | | | .60 | 86.64 | 123.54 | 216.96 | 244.44 | 333.47 | 31.32 | 141.08 PHASE |
| 113 | -5.29 | 6.04 | 605 | 3.38 | .95 | .36 | 1.01 | .81 | .30 | .24 | .33 AMP |
| | | | | 3.27 | 80.14 | 130.12 | 202.15 | 239.76 | 320.55 | 24.64 | 123.22 PHASE |
| 114 | -6.65 | 7.01 | 603 | 3.08 | .99 | .60 | 1.24 | .84 | .37 | .27 | .49 AMP |
| | | | | 11.32 | 93.22 | 150.34 | 216.98 | 263.22 | 351.93 | 60.22 | 172.77 PHASE |
| 115 | -8.11 | 7.66 | 607 | 4.57 | 1.04 | .70 | 1.30 | .66 | .33 | .15 | .52 AMP |
| | | | | 8.79 | 92.60 | 140.46 | 198.64 | 243.38 | 341.35 | 51.00 | 156.59 PHASE |
| 116 | -9.66 | 9.09 | 604 | 5.52 | 1.02 | .85 | 1.52 | .69 | .52 | .22 | .37 AMP |
| | | | | 5.07 | 95.86 | 155.16 | 204.65 | 238.52 | 285.20 | 304.77 | 134.99 PHASE |
| 117 | -10.64 | 9.67 | 600 | 6.19 | 1.16 | 1.02 | 1.62 | .55 | .46 | .24 | .35 AMP |
| | | | | 6.98 | 102.04 | 166.02 | 219.41 | 264.76 | 299.87 | 275.33 | 192.66 PHASE |
| 118 | -11.15 | 10.37 | 608 | 6.57 | 1.00 | .89 | 1.52 | .40 | .36 | .61 | .15 AMP |
| | | | | 3.37 | 96.63 | 161.74 | 215.53 | 262.28 | 263.47 | 244.42 | 221.05 PHASE |
| 119 | .92 | 3.64 | 609 | 2.29 | 1.17 | .26 | .16 | .29 | .11 | .17 | .08 AMP |
| | | | | 316.93 | 95.09 | 28.53 | 292.61 | 321.14 | 350.83 | 341.48 | 184.78 PHASE |
| 120 | -1.53 | 3.53 | 608 | 2.23 | 1.10 | .16 | .14 | .25 | .14 | .09 | .11 AMP |
| | | | | 336.00 | 106.91 | 37.14 | 291.52 | 346.77 | 14.21 | 5.01 | 193.01 PHASE |
| 121 | -2.00 | 3.53 | 600 | 2.35 | 1.16 | .07 | .19 | .16 | .14 | .11 | .11 AMP |
| | | | | 346.35 | 99.09 | 48.31 | 240.20 | 300.99 | 339.94 | 307.40 | 135.59 PHASE |
| 122 | -3.44 | 3.94 | 608 | 2.64 | 1.09 | .08 | .38 | .21 | .15 | .12 | .15 AMP |
| | | | | 349.15 | 87.37 | 121.19 | 207.10 | 240.64 | 293.04 | 283.63 | 112.64 PHASE |
| 123 | -4.06 | 4.91 | 607 | 2.98 | 1.02 | .22 | .55 | .25 | .25 | .15 | .11 AMP |
| | | | | 357.98 | 90.55 | 165.73 | 213.45 | 253.36 | 312.46 | 346.68 | 139.32 PHASE |
| 124 | -6.34 | 6.33 | 606 | 3.42 | .99 | .40 | .00 | .30 | .23 | .11 | .14 AMP |
| | | | | 5.30 | 94.75 | 183.15 | 223.05 | 262.30 | 353.36 | 63.35 | 240.71 PHASE |
| 125 | -7.68 | 6.64 | 609 | 3.00 | 1.01 | .52 | .91 | .31 | .00 | .05 | .05 AMP |
| | | | | 4.68 | 85.81 | 161.86 | 201.43 | 207.78 | 336.64 | 46.99 | 275.12 PHASE |
| 126 | -8.93 | 7.55 | 608 | 4.52 | 1.09 | .59 | 1.12 | .66 | .34 | .07 | .10 AMP |
| | | | | 11.55 | 103.22 | 183.85 | 216.73 | 203.21 | 247.31 | 357.87 | 251.28 PHASE |
| 127 | -10.55 | 9.84 | 605 | 5.93 | 1.29 | .70 | 1.35 | .00 | .03 | .55 | .22 AMP |
| | | | | 11.05 | 106.66 | 183.68 | 246.20 | 275.35 | 331.55 | 19.09 | 330.09 PHASE |
| 128 | -11.30 | 10.73 | 607 | 6.58 | 1.32 | .72 | 1.38 | .67 | .00 | .46 | .27 AMP |
| | | | | 3.78 | 87.00 | 172.17 | 237.42 | 291.46 | 329.29 | 355.19 | 259.25 PHASE |
| 129 | .70 | 3.47 | 608 | 2.01 | .84 | .23 | .29 | .24 | .13 | .19 | .21 AMP |
| | | | | 317.24 | 93.88 | 64.33 | 247.55 | 262.43 | 64.13 | 359.90 | 150.14 PHASE |
| 130 | -1.56 | 3.54 | 609 | 2.04 | .82 | .10 | .40 | .31 | .16 | .25 | .16 AMP |
| | | | | 334.84 | 100.44 | 93.05 | 246.16 | 284.09 | 61.56 | 10.32 | 166.40 PHASE |
| 131 | -1.94 | 3.87 | 608 | 2.30 | .77 | .18 | .51 | .40 | .16 | .13 | .27 AMP |
| | | | | 347.79 | 98.37 | 111.79 | 235.79 | 279.48 | 36.46 | 6.01 | 140.07 PHASE |
| 132 | -3.37 | 4.90 | 609 | 2.67 | .76 | .27 | .77 | .63 | .20 | .13 | .36 AMP |
| | | | | 353.98 | 85.20 | 128.55 | 215.37 | 251.29 | 342.70 | 335.66 | 105.52 PHASE |
| 133 | -4.00 | 5.06 | 608 | 3.13 | .78 | .44 | .99 | .05 | .31 | .08 | .43 AMP |
| | | | | 1.62 | 03.15 | 144.03 | 215.53 | 250.35 | 340.45 | 3.66 | 122.81 PHASE |
| 134 | -6.32 | 6.01 | 608 | 3.72 | .85 | .63 | 1.30 | 1.05 | .41 | .10 | .54 AMP |
| | | | | 6.37 | 80.05 | 154.34 | 211.25 | 260.47 | 341.05 | 7.36 | 124.21 PHASE |
| 135 | -7.75 | 7.02 | 608 | 4.33 | .89 | .85 | 1.52 | 1.12 | .50 | .14 | .59 AMP |
| | | | | 5.53 | 74.07 | 146.41 | 192.74 | 241.00 | 313.42 | 324.53 | 93.05 PHASE |
| 136 | -9.28 | 8.98 | 607 | 5.20 | .86 | .89 | 1.54 | 1.11 | .70 | .14 | .52 AMP |
| | | | | 6.02 | 75.01 | 159.49 | 207.14 | 269.44 | 334.04 | 336.07 | 100.59 PHASE |
| 137 | -10.94 | 9.90 | 608 | 6.36 | .81 | .86 | 1.49 | 1.22 | .77 | .18 | .32 AMP |
| | | | | 6.07 | 72.03 | 177.04 | 220.88 | 302.02 | 340.23 | 261.69 | 101.44 PHASE |
| 138 | -11.63 | 10.21 | 604 | 6.05 | .74 | .61 | 1.44 | 1.40 | .00 | .32 | .26 AMP |
| | | | | 1.03 | 59.40 | 176.67 | 230.40 | 297.33 | 322.55 | 240.20 | 81.58 PHASE |
| 139 | -1.55 | 2.96 | 608 | 1.90 | .60 | .14 | .34 | .21 | .09 | .00 | .15 AMP |
| | | | | 344.00 | 97.89 | 100.57 | 234.31 | 271.42 | 49.64 | 346.21 | 141.74 PHASE |
| 140 | -2.00 | 3.28 | 609 | 2.24 | .55 | .17 | .46 | .30 | .11 | .05 | .18 AMP |
| | | | | 352.82 | 87.62 | 116.11 | 217.46 | 254.78 | 345.73 | 304.14 | 92.70 PHASE |
| 141 | -4.22 | 4.05 | 608 | 2.72 | .54 | .26 | .63 | .45 | .20 | .03 | .24 AMP |
| | | | | 1.38 | 03.50 | 142.73 | 215.01 | 260.03 | 336.01 | 202.34 | 96.17 PHASE |
| 142 | -5.68 | 4.73 | 608 | 3.24 | .59 | .41 | .70 | .55 | .20 | .06 | .26 AMP |
| | | | | 5.05 | 70.36 | 146.06 | 207.11 | 250.27 | 324.76 | 222.66 | 92.05 PHASE |
| 143 | -7.27 | 5.50 | 600 | 3.09 | .66 | .61 | .90 | .60 | .34 | .11 | .30 AMP |
| | | | | 0.45 | 75.37 | 147.61 | 197.90 | 253.70 | 313.60 | 204.97 | 75.05 PHASE |
| 144 | -8.79 | 6.37 | 609 | 4.55 | .75 | .79 | 1.16 | .59 | .36 | .19 | .35 AMP |
| | | | | 9.71 | 70.82 | 146.41 | 106.68 | 242.49 | 290.91 | 211.96 | 59.43 PHASE |
| 145 | -10.15 | 7.30 | 606 | 5.27 | .73 | .84 | 1.24 | .55 | .42 | .26 | .36 AMP |
| | | | | 10.14 | 71.42 | 146.04 | 170.50 | 235.96 | 206.44 | 226.26 | 50.60 PHASE |

TABLE VII.- Continued

(a) Concluded

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 7 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 108 | -4.68 | 5.62 | 608 | 4.14 | .84 | .38 | .41 | .57 | .29 | .47 | .37 AMP |
| 109 | -3.84 | 5.98 | 608 | 162.97 | 282.43 | 244.82 | 21.48 | 112.87 | 76.68 | 38.67 | 178.45 PHASE |
| 110 | -1.77 | 7.81 | 607 | 4.48 | .84 | .19 | .73 | .79 | .35 | .64 | .61 AMP |
| 111 | -.37 | 9.28 | 607 | 177.57 | 268.28 | 232.23 | 24.95 | 78.22 | 62.52 | 32.33 | 158.88 PHASE |
| 112 | .87 | 18.79 | 606 | 4.98 | 1.84 | .39 | .97 | .88 | .54 | .44 | .42 AMP |
| 113 | 2.47 | 12.38 | 605 | 181.23 | 268.56 | 248.93 | 29.34 | 78.89 | 86.14 | 93.52 | 174.86 PHASE |
| 114 | 4.84 | 15.85 | 603 | 5.74 | 1.25 | .43 | 1.48 | 1.48 | .77 | .51 | .51 AMP |
| 115 | 5.98 | 17.19 | 607 | 182.82 | 241.53 | 265.72 | 15.32 | 49.79 | 69.85 | 84.57 | 135.79 PHASE |
| 116 | 8.26 | 21.73 | 604 | 6.56 | 1.49 | .57 | 1.72 | 1.96 | .81 | .72 | .72 AMP |
| 117 | 9.98 | 26.51 | 608 | 198.18 | 241.24 | 387.74 | 24.98 | 67.88 | 87.84 | 183.46 | 169.12 PHASE |
| 118 | 11.87 | 31.85 | 608 | 7.88 | 1.92 | 1.84 | 2.23 | 1.98 | .85 | .81 | .93 AMP |
| 119 | -4.78 | 6.61 | 609 | 198.16 | 235.31 | 317.29 | 22.49 | 64.34 | 82.85 | 188.58 | 151.32 PHASE |
| 120 | -3.27 | 6.73 | 608 | 9.49 | 2.48 | 1.75 | 2.82 | 1.95 | .78 | .88 | 1.28 AMP |
| 121 | -1.72 | 7.26 | 608 | 195.78 | 243.35 | 358.18 | 49.43 | 95.95 | 138.89 | 145.16 | 199.37 PHASE |
| 122 | -.18 | 8.77 | 608 | 11.57 | 2.69 | 2.43 | 2.81 | 1.35 | 1.87 | 1.28 | 1.61 AMP |
| 123 | 1.47 | 11.83 | 607 | 191.47 | 237.65 | 7.24 | 45.83 | 75.81 | 84.69 | 114.52 | 165.81 PHASE |
| 124 | 3.52 | 14.33 | 606 | 14.93 | 2.59 | 3.11 | 2.78 | 2.88 | 2.89 | 2.16 | 1.88 AMP |
| 125 | 5.42 | 16.48 | 609 | 188.39 | 235.19 | 26.47 | 51.92 | 59.87 | 184.83 | 118.64 | 128.36 PHASE |
| 126 | 7.76 | 19.34 | 608 | 17.16 | 2.82 | 3.59 | 2.68 | 1.25 | 1.53 | 2.18 | 2.18 AMP |
| 127 | 10.64 | 28.18 | 605 | 188.68 | 235.67 | 43.43 | 74.81 | 73.85 | 138.24 | 125.45 | 146.25 PHASE |
| 128 | 12.44 | 31.52 | 607 | 19.88 | 3.12 | 4.25 | 2.25 | .91 | 1.48 | 3.13 | 3.13 AMP |
| 129 | -3.49 | 5.66 | 608 | 186.31 | 232.43 | 43.13 | 79.95 | 38.68 | 188.25 | 113.95 | 132.62 PHASE |
| 130 | -2.26 | 6.18 | 609 | 4.51 | .85 | .48 | .12 | .59 | .28 | .44 | .18 AMP |
| 131 | -.95 | 7.18 | 608 | 178.18 | 287.27 | 269.22 | 11.96 | 158.65 | 188.28 | 38.81 | 233.34 PHASE |
| 132 | .46 | 9.28 | 609 | 4.76 | .95 | .55 | .23 | .42 | .27 | .44 | .23 AMP |
| 133 | 1.94 | 11.87 | 608 | 179.33 | 284.58 | 283.86 | 15.84 | 165.75 | 137.87 | 61.87 | 228.92 PHASE |
| 134 | 3.46 | 12.51 | 608 | 5.36 | 1.14 | .75 | .59 | .42 | .29 | .24 | .24 AMP |
| 135 | 5.88 | 15.65 | 608 | 182.86 | 267.68 | 285.87 | 5.81 | 78.87 | 87.67 | 22.75 | 181.15 PHASE |
| 136 | 6.96 | 19.82 | 607 | 6.15 | 1.45 | .91 | .99 | .68 | .34 | .13 | .39 AMP |
| 137 | 9.13 | 25.38 | 608 | 181.32 | 253.91 | 298.28 | 13.77 | 47.41 | 52.88 | 38.42 | 151.37 PHASE |
| 138 | 18.29 | 27.78 | 604 | 7.51 | 1.83 | 1.88 | 1.51 | .64 | .33 | .15 | .38 AMP |
| 139 | -8.86 | 5.42 | 608 | 185.28 | 256.28 | 325.56 | 36.67 | 64.57 | 96.53 | 63.26 | 219.78 PHASE |
| 140 | .36 | 6.54 | 608 | 9.37 | 2.14 | 1.63 | 1.69 | .52 | .45 | .55 | .57 AMP |
| 141 | 1.74 | 8.12 | 608 | 189.46 | 264.86 | 6.88 | 71.53 | 38.81 | 44.26 | 93.33 | 292.34 PHASE |
| 142 | 3.18 | 9.35 | 608 | 11.39 | 2.48 | 1.66 | 1.68 | 1.38 | .92 | 1.88 | .57 AMP |
| 143 | 4.63 | 11.54 | 608 | 186.11 | 255.85 | 5.88 | 51.28 | 3.82 | 58.12 | 98.29 | 291.13 PHASE |
| 144 | 6.28 | 13.97 | 609 | 14.18 | 2.28 | 1.92 | 1.51 | 2.41 | 1.58 | 1.29 | .31 AMP |
| 145 | 7.99 | 17.88 | 606 | 189.32 | 256.58 | 54.64 | 68.45 | 48.67 | 115.64 | 123.83 | 2.83 PHASE |
| | | | | 17.91 | 2.57 | 2.31 | 1.77 | 2.73 | 2.62 | 1.58 | 1.84 AMP |
| | | | | 198.83 | 243.25 | 69.94 | 85.98 | 99.27 | 182.55 | 284.62 | 294.59 PHASE |
| | | | | 28.63 | 3.21 | 3.83 | 2.86 | 1.61 | 2.76 | 1.81 | 1.24 AMP |
| | | | | 183.48 | 235.17 | 54.18 | 95.31 | 187.76 | 191.77 | 188.78 | 224.88 PHASE |
| | | | | 4.83 | .65 | .12 | .54 | .47 | .18 | .56 | .45 AMP |
| | | | | 171.66 | 259.88 | 248.85 | 48.68 | 112.87 | 133.48 | 48.88 | 162.74 PHASE |
| | | | | 4.53 | .61 | .12 | .75 | .73 | .36 | .49 | .59 AMP |
| | | | | 182.65 | 259.88 | 252.87 | 38.84 | 123.14 | 138.84 | 67.78 | 171.38 PHASE |
| | | | | 4.86 | .69 | .16 | 1.85 | 1.15 | .62 | .35 | .63 AMP |
| | | | | 189.46 | 246.45 | 387.38 | 38.51 | 111.59 | 123.38 | 88.21 | 168.93 PHASE |
| | | | | 5.86 | 1.86 | .43 | 1.36 | 1.83 | .96 | .43 | .87 AMP |
| | | | | 186.83 | 224.68 | 329.69 | 15.34 | 85.87 | 97.87 | 96.52 | 133.58 PHASE |
| | | | | 6.98 | 1.17 | .82 | 1.87 | 2.38 | 1.88 | .68 | 1.21 AMP |
| | | | | 192.84 | 229.11 | 358.89 | 23.98 | 96.66 | 187.38 | 121.72 | 148.57 PHASE |
| | | | | 8.23 | 1.47 | 1.48 | 2.34 | 2.75 | 1.33 | .61 | 1.88 AMP |
| | | | | 194.43 | 229.75 | 347.58 | 24.63 | 99.87 | 184.88 | 133.21 | 149.12 PHASE |
| | | | | 9.83 | 2.85 | 2.31 | 2.81 | 3.82 | 1.55 | .63 | 1.89 AMP |
| | | | | 193.15 | 225.94 | 335.52 | 12.18 | 85.12 | 86.64 | 116.83 | 119.38 PHASE |
| | | | | 12.24 | 2.67 | 3.14 | 2.68 | 3.11 | 1.65 | .77 | 2.35 AMP |
| | | | | 195.27 | 231.44 | 357.11 | 33.63 | 187.17 | 186.18 | 114.92 | 123.91 PHASE |
| | | | | 15.78 | 3.21 | 4.87 | 2.25 | 3.84 | 1.77 | 1.38 | 3.88 AMP |
| | | | | 195.13 | 235.56 | 18.51 | 68.68 | 122.72 | 119.45 | 116.97 | 126.42 PHASE |
| | | | | 17.93 | 3.46 | 4.89 | 1.71 | 2.52 | 1.97 | 2.35 | 4.85 AMP |
| | | | | 191.84 | 226.89 | 22.24 | 73.67 | 187.78 | 94.48 | 182.21 | 114.56 PHASE |
| | | | | 4.21 | .45 | .88 | .71 | .72 | .22 | .24 | .37 AMP |
| | | | | 188.77 | 241.82 | 287.67 | 38.49 | 112.42 | 118.16 | 28.92 | 152.98 PHASE |
| | | | | 5.82 | .55 | .14 | .82 | 1.88 | .39 | .13 | .42 AMP |
| | | | | 189.27 | 225.82 | 328.26 | 22.82 | 98.81 | 181.87 | 76.46 | 118.38 PHASE |
| | | | | 5.99 | .64 | .52 | 1.86 | 1.55 | .42 | .13 | .57 AMP |
| | | | | 194.21 | 216.28 | 342.43 | 25.45 | 98.13 | 185.96 | 133.25 | 114.18 PHASE |
| | | | | 7.87 | .87 | .87 | 1.25 | 1.83 | .56 | .22 | .65 AMP |
| | | | | 196.88 | 216.43 | 341.48 | 22.12 | 95.43 | 92.68 | 286.99 | 186.19 PHASE |
| | | | | 8.44 | 1.38 | 1.41 | 1.47 | 2.86 | .76 | .48 | .78 AMP |
| | | | | 196.83 | 214.87 | 343.22 | 14.94 | 98.27 | 82.78 | 214.55 | 84.18 PHASE |
| | | | | 18.17 | 1.72 | 1.98 | 1.67 | 2.32 | 1.86 | .68 | 1.85 AMP |
| | | | | 197.15 | 218.88 | 345.96 | 3.19 | 88.73 | 79.97 | 218.18 | 76.84 PHASE |
| | | | | 12.87 | 2.19 | 2.64 | 1.93 | 2.64 | 1.38 | .58 | 1.34 AMP |
| | | | | 197.87 | 225.72 | 351.72 | 357.19 | 73.93 | 76.85 | 193.98 | 88.96 PHASE |

TABLE VII.- Continued

(b) $\mu = 0.30$; $M_T = 0.62$

| PT. | A1 | M1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 156 | -0.8 | 4.0 | 4.0 | .02478 | -.00321 | .00257 |
| 157 | -1.1 | 5.4 | 6.0 | .03561 | -.00538 | .00340 |
| 158 | -1.4 | 6.6 | 8.0 | .04716 | -.00772 | .00429 |
| 159 | -1.9 | 7.6 | 10.1 | .05977 | -.01026 | .00530 |
| 160 | -2.5 | 8.2 | 11.9 | .07070 | -.01237 | .00629 |
| 161 | -3.2 | 9.2 | 13.8 | .08076 | -.01462 | .00742 |
| 162 | -3.3 | 9.8 | 15.1 | .08819 | -.01604 | .00821 |
| 163 | -3.7 | 10.3 | 15.9 | .09181 | -.01696 | .00891 |
| 164 | -0.7 | 4.4 | 2.0 | .02788 | -.00162 | .00210 |
| 165 | -1.3 | 5.2 | 4.0 | .04109 | -.00284 | .00261 |
| 166 | -1.4 | 6.5 | 5.9 | .05173 | -.00408 | .00322 |
| 167 | -1.7 | 7.4 | 8.1 | .06524 | -.00536 | .00397 |
| 168 | -2.3 | 8.2 | 9.8 | .07489 | -.00666 | .00464 |
| 169 | -3.1 | 9.2 | 11.9 | .08664 | -.00843 | .00568 |
| 170 | -3.6 | 10.5 | 14.0 | .09640 | -.01019 | .00705 |
| 171 | -3.8 | 10.8 | 14.9 | .10130 | -.01067 | .00764 |
| 172 | -4.3 | 11.5 | 16.0 | .10493 | -.01168 | .00862 |
| 173 | -1.1 | 3.9 | .1 | .03363 | .00075 | .00139 |
| 174 | -1.4 | 5.2 | 2.2 | .04621 | .00045 | .00167 |
| 175 | -1.6 | 6.2 | 3.9 | .05648 | .00023 | .00198 |
| 176 | -2.0 | 6.9 | 6.0 | .06989 | .00009 | .00242 |
| 177 | -2.4 | 8.1 | 8.0 | .08046 | -.00052 | .00312 |
| 179 | -2.8 | 9.0 | 9.9 | .09113 | -.00090 | .00390 |
| 180 | -3.4 | 10.0 | 11.8 | .10154 | -.00157 | .00492 |
| 181 | -4.3 | 11.2 | 13.8 | .10853 | -.00299 | .00648 |
| 182 | -4.8 | 12.3 | 15.0 | .11038 | -.00428 | .00779 |

TABLE VII.- Continued

(b) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | B | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 48.28 | 11.89 | 595 | 3.42 | 2.69 | 2.78 | .57 | 3.99 | 1.81 | .89 | .95 AMP |
| | | | | 147.73 | 314.19 | 344.14 | 18.34 | 45.35 | 388.68 | 232.98 | 27.28 PHASE |
| 157 | 49.68 | 11.46 | 594 | 3.95 | 2.78 | 3.31 | .73 | 3.81 | .94 | .77 | .73 AMP |
| | | | | 138.17 | 313.58 | 341.44 | 338.89 | 26.83 | 267.56 | 211.39 | 338.28 PHASE |
| 158 | 51.16 | 12.81 | 595 | 4.42 | 3.13 | 3.54 | .81 | 3.96 | .75 | .88 | .87 AMP |
| | | | | 133.75 | 321.15 | 346.15 | 322.83 | 28.33 | 277.33 | 227.78 | 335.22 PHASE |
| 159 | 52.71 | 12.52 | 595 | 4.84 | 3.48 | 3.65 | 1.13 | 4.38 | .82 | .66 | .66 AMP |
| | | | | 125.64 | 338.41 | 351.68 | 315.88 | 35.86 | 256.92 | 289.98 | 341.18 PHASE |
| 160 | 54.89 | 12.82 | 594 | 5.19 | 3.71 | 3.72 | 1.38 | 4.29 | .82 | .69 | .53 AMP |
| | | | | 118.56 | 348.47 | 328.92 | 323.92 | 57.64 | 268.12 | 288.57 | 354.86 PHASE |
| 161 | 55.37 | 13.53 | 594 | 5.88 | 3.84 | 3.61 | 1.76 | 4.26 | .91 | .86 | .22 AMP |
| | | | | 106.83 | 342.68 | 351.93 | 311.75 | 68.18 | 238.41 | 198.92 | 324.42 PHASE |
| 162 | 56.19 | 13.63 | 594 | 6.48 | 3.99 | 3.39 | 1.88 | 3.77 | .93 | 1.88 | .67 AMP |
| | | | | 95.24 | 341.42 | 337.14 | 292.25 | 48.97 | 286.68 | 166.96 | 264.14 PHASE |
| 163 | 56.73 | 13.64 | 594 | 6.91 | 4.85 | 3.14 | 2.88 | 3.67 | 1.14 | 1.18 | .48 AMP |
| | | | | 88.82 | 344.16 | 332.38 | 283.84 | 51.61 | 195.34 | 162.21 | 263.47 PHASE |
| 164 | 47.69 | 13.45 | 596 | 4.37 | 3.33 | 1.98 | .38 | 4.38 | 1.21 | 1.46 | 1.47 AMP |
| | | | | 145.58 | 311.72 | 343.14 | 1.87 | 56.37 | 288.66 | 212.49 | 31.44 PHASE |
| 165 | 49.14 | 13.36 | 595 | 4.54 | 3.68 | 2.68 | .51 | 3.97 | 1.18 | 1.47 | 1.88 AMP |
| | | | | 146.66 | 328.52 | 1.42 | 345.35 | 81.98 | 299.98 | 241.61 | 58.24 PHASE |
| 166 | 58.59 | 13.62 | 595 | 4.89 | 3.76 | 2.98 | .68 | 3.75 | 1.14 | 1.72 | .66 AMP |
| | | | | 144.52 | 326.83 | 18.26 | 317.34 | 88.31 | 385.54 | 244.45 | 52.78 PHASE |
| 167 | 52.84 | 13.58 | 595 | 5.18 | 3.98 | 3.87 | .78 | 3.89 | 1.18 | 1.97 | .82 AMP |
| | | | | 136.15 | 325.86 | 5.75 | 291.64 | 65.41 | 277.75 | 225.82 | 19.79 PHASE |
| 168 | 53.16 | 13.24 | 594 | 5.26 | 4.88 | 3.87 | .94 | 3.89 | 1.17 | 1.91 | .49 AMP |
| | | | | 126.98 | 328.42 | 5.55 | 285.99 | 67.39 | 259.95 | 222.94 | 39.12 PHASE |
| 169 | 54.52 | 13.14 | 595 | 5.62 | 3.84 | 2.96 | 1.12 | 3.93 | 1.18 | 1.91 | .23 AMP |
| | | | | 116.33 | 337.82 | 9.66 | 274.11 | 82.44 | 252.86 | 225.13 | 78.92 PHASE |
| 170 | 55.67 | 13.98 | 595 | 6.27 | 4.82 | 2.78 | 1.61 | 3.78 | 1.58 | 2.25 | .46 AMP |
| | | | | 99.15 | 344.88 | 353.39 | 253.76 | 86.23 | 216.82 | 199.19 | 152.69 PHASE |
| 171 | 56.11 | 15.77 | 595 | 6.63 | 4.36 | 2.48 | 1.91 | 3.68 | 1.92 | 2.72 | 1.84 AMP |
| | | | | 89.24 | 344.18 | 338.42 | 238.81 | 181.81 | 282.52 | 196.21 | 158.44 PHASE |
| 172 | 56.49 | 18.84 | 595 | 7.55 | 4.87 | 2.78 | 2.68 | 3.27 | 2.45 | 3.84 | 1.12 AMP |
| | | | | 77.86 | 358.32 | 317.46 | 233.35 | 118.95 | 195.54 | 194.12 | 155.88 PHASE |
| 173 | 47.89 | 13.75 | 595 | 5.15 | 3.72 | 1.32 | .75 | 5.12 | 1.58 | 1.51 | .63 AMP |
| | | | | 147.88 | 316.86 | 12.96 | 59.57 | 74.27 | 333.88 | 255.93 | 93.12 PHASE |
| 174 | 48.59 | 13.94 | 595 | 5.64 | 3.95 | 2.25 | .74 | 5.28 | 1.13 | 1.69 | .48 AMP |
| | | | | 142.48 | 389.71 | 11.36 | 47.83 | 59.88 | 383.77 | 233.88 | 142.52 PHASE |
| 175 | 49.74 | 13.38 | 594 | 5.86 | 4.16 | 2.52 | .66 | 4.92 | 1.85 | 1.64 | .36 AMP |
| | | | | 141.54 | 311.93 | 19.26 | 61.54 | 63.45 | 385.42 | 235.18 | 176.62 PHASE |
| 176 | 51.82 | 12.62 | 595 | 5.81 | 4.29 | 2.63 | .45 | 4.57 | 1.88 | 1.87 | .67 AMP |
| | | | | 137.65 | 318.28 | 29.66 | 78.52 | 65.39 | 292.98 | 252.22 | 196.98 PHASE |
| 177 | 52.16 | 12.57 | 594 | 6.85 | 4.44 | 2.65 | .33 | 4.12 | 1.86 | 1.75 | 1.24 AMP |
| | | | | 131.46 | 322.35 | 28.91 | 97.95 | 79.47 | 266.22 | 251.43 | 188.87 PHASE |
| 179 | 53.17 | 12.88 | 596 | 6.14 | 4.67 | 2.71 | .14 | 2.92 | 1.38 | 2.88 | 2.49 AMP |
| | | | | 121.15 | 322.92 | 23.74 | 188.17 | 76.82 | 236.62 | 236.61 | 169.58 PHASE |
| 180 | 54.83 | 16.86 | 595 | 6.42 | 4.91 | 2.29 | .34 | 1.28 | 2.19 | 2.44 | 3.66 AMP |
| | | | | 185.65 | 327.18 | 9.18 | 268.81 | 58.82 | 217.21 | 228.82 | 163.86 PHASE |
| 181 | 54.77 | 28.55 | 595 | 7.13 | 5.48 | 2.33 | 1.42 | 1.45 | 2.85 | 2.86 | 4.17 AMP |
| | | | | 87.84 | 334.67 | 313.85 | 256.28 | 252.12 | 213.35 | 213.84 | 175.48 PHASE |
| 182 | 55.84 | 28.61 | 594 | 8.28 | 6.28 | 3.85 | 2.84 | 1.52 | 2.13 | 2.12 | 3.49 AMP |
| | | | | 75.84 | 341.97 | 281.45 | 245.92 | 255.44 | 219.43 | 213.78 | 198.78 PHASE |

TABLE VII.- Continued

(b) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 8 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 46.81 | 28.99 | 595 | 6.46 | 1.94 | 3.53 | 3.18 | 1.87 | 7.48 | 1.88 | .56 AMP |
| | | | | 382.88 | 119.87 | 217.71 | 58.75 | 354.29 | 327.54 | 313.88 | 98.83 PHASE |
| 157 | 46.98 | 33.45 | 594 | 16.27 | 3.89 | 7.67 | 3.86 | 4.46 | 7.55 | .88 | .44 AMP |
| | | | | 323.82 | 116.34 | 185.18 | 18.59 | 318.84 | 329.87 | 345.24 | 52.56 PHASE |
| 158 | 48.85 | 48.22 | 595 | 28.21 | 5.88 | 13.68 | 5.75 | 4.38 | 6.63 | 1.86 | .75 AMP |
| | | | | 339.26 | 123.44 | 195.42 | 14.28 | 319.15 | 333.28 | 232.16 | 55.31 PHASE |
| 159 | 48.64 | 78.57 | 595 | 41.47 | 5.97 | 19.55 | 7.52 | 3.99 | 6.94 | 2.41 | 1.87 AMP |
| | | | | 348.16 | 133.19 | 218.94 | 17.89 | 321.82 | 331.88 | 279.68 | 63.86 PHASE |
| 160 | 48.48 | 87.49 | 594 | 53.86 | 6.89 | 24.78 | 8.64 | 3.43 | 7.77 | 4.14 | 1.23 AMP |
| | | | | 356.78 | 143.38 | 229.71 | 27.35 | 325.82 | 358.24 | 322.18 | 86.72 PHASE |
| 161 | 48.28 | 184.21 | 594 | 67.33 | 7.11 | 38.58 | 18.18 | 3.88 | 8.82 | 5.15 | 1.44 AMP |
| | | | | 357.32 | 141.83 | 238.98 | 11.66 | 281.18 | 352.89 | 329.81 | 88.62 PHASE |
| 162 | 47.68 | 121.35 | 594 | 82.33 | 7.65 | 34.18 | 11.64 | 5.25 | 8.68 | 5.31 | 1.51 AMP |
| | | | | 356.97 | 142.67 | 226.11 | 358.15 | 229.38 | 328.18 | 322.73 | 56.31 PHASE |
| 163 | 47.57 | 128.42 | 594 | 98.29 | 8.21 | 35.57 | 12.96 | 6.42 | 18.16 | 5.45 | 1.78 AMP |
| | | | | 356.68 | 148.28 | 225.68 | 337.96 | 228.45 | 332.66 | 327.56 | 55.29 PHASE |
| 164 | 43.11 | 21.61 | 596 | 18.17 | 3.21 | 4.96 | 2.58 | 1.97 | 5.31 | 1.57 | .75 AMP |
| | | | | 279.71 | 187.53 | 237.58 | 54.85 | 11.61 | 281.46 | 331.44 | 93.31 PHASE |
| 165 | 43.15 | 38.89 | 595 | 17.84 | 6.37 | 5.59 | 2.11 | 4.87 | 4.58 | 2.41 | .66 AMP |
| | | | | 388.19 | 118.58 | 228.77 | 25.84 | 321.14 | 13.38 | 11.75 | 113.75 PHASE |
| 166 | 43.87 | 44.85 | 595 | 29.65 | 8.52 | 11.85 | 4.21 | 6.25 | 2.18 | 1.33 | .74 AMP |
| | | | | 328.74 | 129.11 | 211.84 | 19.32 | 344.61 | 324.36 | 42.39 | 185.48 PHASE |
| 167 | 42.61 | 67.33 | 595 | 42.57 | 18.82 | 16.54 | 5.81 | 5.49 | 4.69 | 2.41 | 1.21 AMP |
| | | | | 339.21 | 129.14 | 214.51 | 28.67 | 352.16 | 316.53 | 311.55 | 85.89 PHASE |
| 168 | 41.84 | 81.17 | 594 | 52.17 | 18.62 | 28.82 | 6.28 | 5.92 | 6.12 | 4.22 | 1.22 AMP |
| | | | | 343.55 | 132.83 | 221.86 | 28.29 | 358.94 | 338.45 | 321.37 | 84.65 PHASE |
| 169 | 41.89 | 97.28 | 595 | 65.46 | 11.88 | 24.96 | 7.15 | 6.58 | 8.19 | 5.97 | 1.22 AMP |
| | | | | 349.25 | 135.25 | 233.99 | 33.18 | 354.38 | .83 | 336.28 | 97.88 PHASE |
| 170 | 48.37 | 119.45 | 595 | 84.95 | 18.54 | 29.38 | 8.83 | 5.47 | 8.14 | 6.96 | .83 AMP |
| | | | | 351.66 | 131.87 | 233.61 | 11.28 | 341.38 | 359.73 | 329.87 | 54.28 PHASE |
| 171 | 48.27 | 127.59 | 595 | 94.89 | 18.88 | 38.52 | 8.82 | 6.85 | 9.17 | 5.75 | .34 AMP |
| | | | | 355.24 | 137.22 | 236.78 | 4.48 | 385.84 | 352.81 | 346.78 | 48.58 PHASE |
| 172 | 41.28 | 138.71 | 595 | 187.85 | 18.82 | 31.73 | 8.81 | 8.65 | 13.61 | 5.29 | .38 AMP |
| | | | | 357.53 | 141.19 | 232.36 | 343.53 | 284.18 | 347.22 | 354.18 | 24.74 PHASE |
| 173 | 48.49 | 29.83 | 595 | 15.34 | 3.46 | 5.57 | 2.78 | 3.82 | 5.35 | .96 | .63 AMP |
| | | | | 273.19 | 111.83 | 262.28 | 66.83 | 35.35 | 284.47 | 26.28 | 96.21 PHASE |
| 174 | 39.37 | 39.99 | 595 | 24.29 | 6.68 | 5.64 | 1.48 | 3.41 | 8.48 | 2.28 | .68 AMP |
| | | | | 295.32 | 186.11 | 248.13 | 38.85 | 387.94 | 316.22 | 342.83 | 88.54 PHASE |
| 175 | 38.42 | 45.38 | 594 | 32.77 | 8.96 | 6.94 | 3.48 | 6.41 | 5.81 | 2.61 | .71 AMP |
| | | | | 318.39 | 116.68 | 222.45 | 6.59 | 318.84 | 316.78 | 8.47 | 56.87 PHASE |
| 176 | 37.88 | 54.21 | 595 | 43.19 | 11.17 | 11.86 | 5.88 | 6.69 | 6.72 | 3.81 | 1.11 AMP |
| | | | | 327.13 | 124.96 | 222.97 | 38.82 | 344.31 | 326.68 | 9.15 | 54.62 PHASE |
| 177 | 35.43 | 69.18 | 594 | 54.46 | 11.99 | 16.86 | 6.44 | 6.71 | 8.87 | 5.42 | 1.11 AMP |
| | | | | 335.19 | 128.32 | 231.33 | 35.97 | 354.37 | 1.52 | 354.81 | 63.58 PHASE |
| 179 | 33.63 | 88.85 | 596 | 65.97 | 13.85 | 19.64 | 6.19 | 8.81 | 12.62 | 6.85 | .99 AMP |
| | | | | 341.24 | 138.33 | 234.87 | 29.58 | 353.18 | 6.49 | 331.84 | 6.65 PHASE |
| 180 | 32.59 | 112.41 | 595 | 79.88 | 14.31 | 22.82 | 7.26 | 8.64 | 15.53 | 9.14 | 1.88 AMP |
| | | | | 348.89 | 138.48 | 234.97 | 15.57 | 348.96 | 6.16 | 316.51 | 333.98 PHASE |
| 181 | 34.28 | 129.62 | 595 | 95.71 | 14.18 | 27.29 | 7.41 | 4.87 | 12.37 | 7.17 | 2.81 AMP |
| | | | | 353.61 | 132.76 | 235.27 | 348.56 | 388.86 | 13.12 | 334.28 | 351.66 PHASE |
| 182 | 36.49 | 144.11 | 594 | 189.18 | 14.47 | 28.21 | 6.17 | 3.48 | 18.87 | 2.98 | 1.63 AMP |
| | | | | 358.87 | 148.41 | 235.88 | 354.67 | 224.71 | 27.58 | .47 | 334.98 PHASE |

TABLE VII.- Continued

(b) Continued

| TORSION 20 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 8 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 156 | 7.25 | 6.69 | 595 | 4.94 | .33 | .55 | .96 | 1.14 | .19 | .36 | .23 | AMP |
| 157 | 5.59 | 6.68 | 594 | 339.75 | 88.42 | 343.95 | 251.87 | 389.88 | 85.79 | 257.31 | 78.87 | PHASE |
| 158 | 3.85 | 7.59 | 595 | 5.38 | .25 | .51 | .97 | 1.87 | .11 | .27 | .89 | AMP |
| 159 | 1.88 | 8.78 | 595 | 344.86 | 47.87 | 353.18 | 234.84 | 293.87 | 38.91 | 243.95 | 45.26 | PHASE |
| 160 | .15 | 18.15 | 594 | 6.16 | .32 | .36 | 1.17 | 1.27 | .14 | .47 | .11 | AMP |
| 161 | -1.64 | 12.88 | 594 | 358.95 | 21.11 | 359.31 | 242.96 | 291.98 | 9.84 | 249.37 | 28.73 | PHASE |
| 162 | -2.97 | 14.17 | 594 | 7.18 | .36 | .14 | 1.54 | 1.45 | .88 | .43 | .84 | AMP |
| 163 | -3.86 | 15.45 | 594 | 356.98 | 29.25 | 387.81 | 246.25 | 388.84 | 33.74 | 247.81 | 185.58 | PHASE |
| 164 | 8.11 | 7.81 | 596 | 7.99 | .42 | .37 | 1.72 | 1.45 | .15 | .42 | .89 | AMP |
| 165 | 6.38 | 7.35 | 595 | 4.73 | 58.38 | 233.53 | 261.82 | 326.37 | 185.25 | 265.99 | 254.47 | PHASE |
| 166 | 4.49 | 8.82 | 595 | 9.17 | .51 | .84 | 1.93 | 1.53 | .29 | .45 | .15 | AMP |
| 167 | 2.51 | 9.47 | 595 | 6.56 | 88.56 | 228.15 | 268.12 | 336.89 | 95.67 | 252.87 | 234.65 | PHASE |
| 168 | .84 | 11.19 | 594 | 18.36 | .81 | 1.41 | 2.87 | 1.57 | .48 | .58 | .28 | AMP |
| 169 | -1.45 | 13.81 | 595 | 6.18 | 89.66 | 213.98 | 252.88 | 331.28 | 77.23 | 224.57 | 247.14 | PHASE |
| 170 | -3.99 | 18.15 | 595 | 11.28 | 1.15 | 1.76 | 2.18 | 1.76 | .44 | .51 | .22 | AMP |
| 171 | -5.53 | 28.61 | 595 | 6.79 | 94.93 | 218.62 | 252.35 | 333.68 | 64.12 | 227.44 | 258.87 | PHASE |
| 172 | -7.29 | 23.18 | 595 | 5.41 | .69 | .55 | 1.85 | 1.82 | .32 | .52 | .36 | AMP |
| 173 | 8.79 | 8.21 | 595 | 335.49 | 183.81 | 333.53 | 258.41 | 317.22 | 74.99 | 245.17 | 73.99 | PHASE |
| 174 | 6.84 | 8.46 | 595 | 5.89 | .51 | .49 | .97 | .96 | .28 | .49 | .21 | AMP |
| 175 | 5.16 | 9.86 | 594 | 346.53 | 92.46 | 358.88 | 262.92 | 347.33 | 186.47 | 288.57 | 124.25 | PHASE |
| 176 | 2.91 | 18.63 | 595 | 6.68 | .53 | .37 | 1.17 | .85 | .18 | .65 | .16 | AMP |
| 177 | .78 | 13.42 | 594 | 353.35 | 73.97 | 358.82 | 262.31 | 348.58 | 88.82 | 278.28 | 182.64 | PHASE |
| 178 | -1.81 | 16.88 | 596 | 7.68 | .68 | .25 | 1.44 | 1.81 | .19 | .87 | .18 | AMP |
| 179 | -4.94 | 28.94 | 595 | 356.81 | 62.34 | 294.87 | 251.63 | 324.48 | 94.59 | 255.78 | 128.11 | PHASE |
| 180 | -7.96 | 24.92 | 595 | 8.56 | .88 | .55 | 1.67 | 1.16 | .23 | .77 | .21 | AMP |
| 181 | -18.31 | 38.68 | 594 | .49 | 73.85 | 242.48 | 256.18 | 338.78 | 183.84 | 256.85 | 172.74 | PHASE |
| 182 | | | | 18.28 | 1.26 | 1.26 | 1.81 | 1.33 | .28 | .64 | .32 | AMP |
| | | | | 6.44 | 96.75 | 233.58 | 267.76 | .97 | 93.65 | 267.83 | 281.32 | PHASE |
| | | | | 12.75 | 2.14 | 2.28 | 2.81 | 1.64 | .37 | .68 | .39 | AMP |
| | | | | 7.49 | 181.62 | 227.22 | 267.78 | 355.52 | 356.54 | 261.44 | 284.49 | PHASE |
| | | | | 14.68 | 2.47 | 2.93 | 2.31 | 1.74 | .92 | .98 | .68 | AMP |
| | | | | 7.68 | 181.75 | 235.56 | 271.97 | 343.81 | 315.94 | 263.88 | 217.68 | PHASE |
| | | | | 16.91 | 3.82 | 3.23 | 2.48 | 1.73 | 1.34 | 1.27 | .68 | AMP |
| | | | | 6.41 | 91.61 | 242.57 | 278.88 | 335.26 | 384.91 | 263.63 | 288.99 | PHASE |
| | | | | 5.76 | 1.28 | .68 | 1.16 | 1.29 | .15 | .56 | .31 | AMP |
| | | | | 337.96 | 126.27 | 27.84 | 299.97 | 333.89 | 63.93 | 269.28 | 172.23 | PHASE |
| | | | | 6.19 | 1.82 | .78 | .94 | 1.45 | .88 | .64 | .38 | AMP |
| | | | | 341.31 | 186.75 | 38.12 | 276.83 | 311.36 | 154.88 | 268.44 | 178.86 | PHASE |
| | | | | 6.78 | 1.83 | .69 | 1.85 | 1.27 | .16 | .63 | .43 | AMP |
| | | | | 347.87 | 92.72 | 32.47 | 269.79 | 316.57 | 282.91 | 249.13 | 193.66 | PHASE |
| | | | | 7.88 | 1.38 | .29 | 1.35 | 1.36 | .28 | .71 | .46 | AMP |
| | | | | 354.71 | 88.64 | 38.18 | 277.45 | 316.12 | 223.62 | 265.73 | 211.19 | PHASE |
| | | | | 9.33 | 1.67 | .32 | 1.79 | 1.46 | .19 | .55 | .63 | AMP |
| | | | | 359.76 | 92.88 | 261.11 | 278.22 | 332.48 | 336.88 | 283.73 | 288.69 | PHASE |
| | | | | 11.58 | 2.27 | 1.86 | 2.88 | 1.73 | .49 | .55 | .94 | AMP |
| | | | | 2.66 | 97.21 | 247.73 | 272.95 | 315.68 | 348.86 | 288.35 | 191.45 | PHASE |
| | | | | 14.73 | 2.77 | 2.89 | 2.76 | 2.59 | .96 | .94 | 1.21 | AMP |
| | | | | 3.85 | 99.85 | 254.99 | 271.81 | 297.71 | 326.57 | 275.16 | 193.78 | PHASE |
| | | | | 18.15 | 2.77 | 3.48 | 3.15 | 3.19 | 1.83 | 1.66 | .91 | AMP |
| | | | | 2.78 | 98.81 | 273.34 | 278.78 | 295.19 | 314.94 | 282.94 | 216.86 | PHASE |
| | | | | 21.88 | 2.28 | 8.11 | 3.14 | 4.77 | 4.18 | 3.88 | 1.48 | AMP |
| | | | | 3.35 | 86.61 | 285.56 | 288.87 | 282.87 | 388.94 | 386.98 | 389.79 | PHASE |

TABLE VII.- Continued

(b) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 34.89 | 11.96 | 595 | 6.68 | 3.34 | 3.48 | .35 | 2.37 | .29 | .25 | .38 AMP |
| | | | | 136.19 | 319.84 | 358.96 | 331.64 | 46.67 | 223.69 | 215.99 | 196.49 PHASE |
| 157 | 36.12 | 12.78 | 594 | 7.58 | 3.61 | 4.38 | .44 | 2.12 | .48 | .28 | .32 AMP |
| | | | | 137.91 | 314.57 | 345.78 | 323.25 | 28.98 | 238.71 | 185.34 | 142.17 PHASE |
| 158 | 37.36 | 14.89 | 595 | 8.56 | 4.12 | 4.88 | .46 | 2.25 | .38 | .35 | .27 AMP |
| | | | | 135.19 | 316.52 | 351.42 | 322.31 | 28.82 | 226.13 | 186.23 | 147.74 PHASE |
| 159 | 38.64 | 15.18 | 595 | 9.62 | 4.65 | 5.22 | .58 | 2.46 | .32 | .39 | .38 AMP |
| | | | | 136.16 | 328.81 | .18 | 323.74 | 33.78 | 213.99 | 218.74 | 148.98 PHASE |
| 160 | 39.79 | 15.96 | 594 | 18.37 | 5.85 | 5.65 | .69 | 2.49 | .33 | .43 | .25 AMP |
| | | | | 139.32 | 326.48 | 13.81 | 336.84 | 55.56 | 217.64 | 271.29 | 172.38 PHASE |
| 161 | 48.92 | 17.18 | 594 | 11.38 | 5.37 | 5.87 | .81 | 2.48 | .41 | .48 | .18 AMP |
| | | | | 136.88 | 323.12 | 18.85 | 328.18 | 58.28 | 283.97 | 282.12 | 148.74 PHASE |
| 162 | 41.78 | 17.38 | 594 | 11.98 | 5.67 | 5.79 | .66 | 2.19 | .41 | .45 | .22 AMP |
| | | | | 133.12 | 318.53 | 2.24 | 382.91 | 45.36 | 168.16 | 269.64 | 79.68 PHASE |
| 163 | 42.19 | 17.86 | 594 | 12.18 | 5.77 | 5.72 | .65 | 2.12 | .49 | .37 | .19 AMP |
| | | | | 131.41 | 318.23 | 1.22 | 286.87 | 48.56 | 165.14 | 268.12 | 65.78 PHASE |
| 164 | 33.78 | 13.42 | 596 | 7.75 | 4.88 | 3.88 | .29 | 2.48 | .36 | .25 | .42 AMP |
| | | | | 133.77 | 314.11 | 351.88 | 383.54 | 56.41 | 241.97 | 188.33 | 194.16 PHASE |
| 165 | 34.84 | 14.86 | 595 | 8.58 | 4.54 | 3.89 | .48 | 2.15 | .43 | .38 | .32 AMP |
| | | | | 138.99 | 321.44 | 4.87 | 317.18 | 83.69 | 252.42 | 215.32 | 283.67 PHASE |
| 166 | 36.19 | 15.43 | 595 | 9.41 | 4.85 | 4.35 | .48 | 1.91 | .58 | .24 | .28 AMP |
| | | | | 148.31 | 322.38 | 11.21 | 313.84 | 78.87 | 252.46 | 282.83 | 197.61 PHASE |
| 167 | 37.37 | 16.64 | 595 | 18.38 | 5.23 | 4.72 | .35 | 1.97 | .56 | .27 | .31 AMP |
| | | | | 138.59 | 317.39 | 8.27 | 287.25 | 62.59 | 233.89 | 196.52 | 178.53 PHASE |
| 168 | 38.27 | 16.88 | 594 | 18.96 | 5.37 | 4.96 | .36 | 1.86 | .61 | .27 | .38 AMP |
| | | | | 136.77 | 315.95 | 18.65 | 283.11 | 67.83 | 221.41 | 222.81 | 171.37 PHASE |
| 169 | 39.38 | 17.81 | 595 | 11.59 | 5.23 | 5.16 | .39 | 1.79 | .54 | .29 | .17 AMP |
| | | | | 136.29 | 317.82 | 17.41 | 258.92 | 85.78 | 215.43 | 252.82 | 169.93 PHASE |
| 170 | 48.38 | 18.65 | 595 | 12.23 | 5.31 | 5.23 | .64 | 1.68 | .78 | .33 | .88 AMP |
| | | | | 138.95 | 315.88 | 18.58 | 216.55 | 95.91 | 185.17 | 275.66 | 34.89 PHASE |
| 171 | 48.69 | 18.23 | 595 | 12.15 | 5.73 | 4.65 | .89 | 1.98 | .95 | .19 | .25 AMP |
| | | | | 128.78 | 313.69 | 8.32 | 195.94 | 116.55 | 175.78 | 296.48 | 11.13 PHASE |
| 172 | 41.18 | 17.93 | 595 | 12.14 | 6.88 | 4.43 | 1.49 | 1.88 | 1.86 | .86 | .22 AMP |
| | | | | 124.72 | 316.18 | 355.13 | 198.33 | 132.83 | 172.85 | 311.25 | 8.86 PHASE |
| 173 | 32.38 | 14.45 | 595 | 8.92 | 4.52 | 2.48 | .83 | 2.89 | .33 | .28 | .27 AMP |
| | | | | 139.37 | 317.69 | 9.34 | 298.23 | 79.52 | 332.92 | 219.68 | 239.25 PHASE |
| 174 | 33.49 | 16.89 | 595 | 9.85 | 4.92 | 3.35 | .14 | 3.88 | .28 | .28 | .83 AMP |
| | | | | 137.15 | 318.58 | 2.27 | 67.24 | 65.27 | 288.19 | 181.92 | 283.24 PHASE |
| 175 | 34.45 | 16.76 | 594 | 18.57 | 5.19 | 3.68 | .35 | 2.98 | .17 | .89 | .89 AMP |
| | | | | 137.64 | 318.34 | 7.28 | 183.16 | 78.91 | 281.82 | 191.86 | 185.15 PHASE |
| 176 | 35.45 | 16.79 | 595 | 11.29 | 5.55 | 4.88 | .51 | 2.59 | .37 | .28 | .87 AMP |
| | | | | 138.92 | 311.98 | 18.24 | 113.81 | 78.53 | 258.14 | 179.99 | 38.95 PHASE |
| 177 | 36.37 | 17.84 | 594 | 11.97 | 5.85 | 4.28 | .62 | 2.38 | .41 | .34 | .14 AMP |
| | | | | 137.79 | 312.49 | 23.18 | 123.85 | 85.38 | 218.21 | 199.58 | 38.33 PHASE |
| 179 | 37.11 | 18.45 | 596 | 12.49 | 6.28 | 4.56 | .58 | 1.74 | .59 | .36 | .46 AMP |
| | | | | 134.43 | 318.84 | 21.86 | 122.67 | 88.57 | 195.87 | 285.94 | 351.93 PHASE |
| 180 | 37.84 | 18.32 | 595 | 12.87 | 6.91 | 4.49 | .57 | .81 | .84 | .33 | .84 AMP |
| | | | | 138.53 | 389.72 | 15.59 | 128.71 | 68.58 | 177.37 | 281.52 | 342.88 PHASE |
| 181 | 38.62 | 18.22 | 595 | 12.83 | 7.88 | 3.78 | .69 | .62 | 1.88 | .29 | .97 AMP |
| | | | | 127.18 | 318.54 | 352.61 | 194.58 | 271.47 | 188.19 | 183.91 | 5.67 PHASE |
| 182 | 39.11 | 28.18 | 594 | 12.43 | 9.28 | 3.55 | 1.21 | .85 | 1.15 | .58 | .84 AMP |
| | | | | 125.21 | 314.88 | 324.36 | 214.16 | 285.38 | 158.72 | 159.29 | 44.71 PHASE |

TABLE VII.- Continued

(b) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 8 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 24.47 | 22.95 | 595 | 5.96 | 1.88 | 2.65 | 4.66 | 2.57 | 11.15 | 2.86 | 1.84 AMP |
| | | | | 297.94 | 122.58 | 239.92 | 41.58 | 14.85 | 323.46 | 334.72 | 121.47 PHASE |
| 157 | 24.77 | 29.25 | 594 | 12.74 | 3.27 | 5.22 | 5.82 | 4.74 | 11.38 | 1.73 | .93 AMP |
| | | | | 317.28 | 116.24 | 281.51 | 17.43 | 315.88 | 324.76 | 353.14 | 186.88 PHASE |
| 158 | 25.25 | 38.58 | 595 | 21.19 | 4.47 | 9.45 | 7.86 | 5.87 | 9.69 | 2.86 | 1.17 AMP |
| | | | | 332.59 | 123.13 | 288.83 | 17.98 | 328.88 | 328.84 | 212.33 | 112.58 PHASE |
| 159 | 25.12 | 57.65 | 595 | 38.68 | 5.38 | 14.16 | 9.85 | 4.98 | 18.27 | 4.91 | 1.24 AMP |
| | | | | 348.98 | 129.35 | 224.12 | 19.88 | 335.38 | 327.58 | 268.11 | 182.94 PHASE |
| 160 | 24.54 | 72.71 | 594 | 39.24 | 5.49 | 18.82 | 11.49 | 4.23 | 11.21 | 7.87 | 1.57 AMP |
| | | | | 349.18 | 139.83 | 241.73 | 38.91 | 346.81 | 354.48 | 385.65 | 118.68 PHASE |
| 161 | 23.23 | 85.73 | 594 | 49.94 | 6.46 | 24.84 | 13.72 | 3.23 | 11.39 | 9.63 | 1.78 AMP |
| | | | | 349.98 | 136.44 | 242.36 | 17.46 | 384.74 | 349.54 | 314.24 | 88.67 PHASE |
| 162 | 21.83 | 97.54 | 594 | 58.75 | 7.17 | 27.55 | 15.28 | 4.88 | 11.77 | 9.62 | 2.34 AMP |
| | | | | 349.75 | 136.13 | 236.44 | 358.82 | 233.39 | 326.28 | 388.69 | 51.17 PHASE |
| 163 | 21.16 | 182.81 | 594 | 66.78 | 7.75 | 29.85 | 16.24 | 5.26 | 13.85 | 9.69 | 2.18 AMP |
| | | | | 349.53 | 139.84 | 235.95 | 348.61 | 219.73 | 338.48 | 315.86 | 46.87 PHASE |
| 164 | 21.73 | 22.78 | 596 | 9.28 | 2.77 | 3.97 | 3.75 | 3.13 | 8.28 | 2.86 | .94 AMP |
| | | | | 278.47 | 181.47 | 247.88 | 41.82 | 26.48 | 277.45 | 337.37 | 118.12 PHASE |
| 165 | 21.72 | 38.22 | 595 | 14.97 | 4.99 | 4.36 | 4.15 | 3.61 | 7.88 | 4.56 | 1.29 AMP |
| | | | | 382.78 | 114.47 | 237.89 | 28.67 | 333.32 | 4.36 | 15.86 | 149.85 PHASE |
| 166 | 21.14 | 33.83 | 595 | 23.12 | 6.78 | 8.81 | 6.25 | 6.61 | 3.51 | 2.95 | 1.17 AMP |
| | | | | 321.99 | 124.43 | 225.17 | 25.78 | 358.56 | 326.55 | 59.74 | 138.45 PHASE |
| 167 | 19.98 | 54.37 | 595 | 32.58 | 8.38 | 12.29 | 8.89 | 6.74 | 7.39 | 2.98 | 2.13 AMP |
| | | | | 331.98 | 125.42 | 227.82 | 22.44 | 357.98 | 313.16 | 388.37 | 188.85 PHASE |
| 168 | 18.63 | 66.66 | 594 | 48.87 | 9.51 | 16.88 | 9.24 | 7.14 | 9.75 | 6.88 | 1.94 AMP |
| | | | | 336.67 | 128.78 | 234.98 | 27.95 | 354.79 | 329.33 | 313.15 | 96.13 PHASE |
| 169 | 16.68 | 78.67 | 595 | 58.61 | 18.73 | 28.31 | 18.63 | 7.93 | 12.41 | 9.68 | 1.85 AMP |
| | | | | 342.62 | 132.57 | 248.68 | 31.78 | 355.13 | .56 | 327.52 | 95.88 PHASE |
| 170 | 14.63 | 96.67 | 595 | 65.66 | 11.53 | 25.18 | 12.84 | 6.62 | 11.87 | 12.88 | 1.82 AMP |
| | | | | 345.44 | 129.97 | 246.98 | 14.54 | 338.58 | 359.63 | 328.42 | 29.49 PHASE |
| 171 | 13.77 | 188.62 | 595 | 72.85 | 12.77 | 27.84 | 11.54 | 7.83 | 12.65 | 18.52 | 1.97 AMP |
| | | | | 349.36 | 135.43 | 248.51 | 11.88 | 299.93 | 351.94 | 342.18 | 8.84 PHASE |
| 172 | 13.99 | 112.15 | 595 | 81.44 | 13.79 | 29.82 | 11.28 | 18.72 | 18.93 | 9.74 | 1.76 AMP |
| | | | | 352.13 | 148.46 | 243.49 | 354.88 | 276.23 | 344.46 | 354.95 | 344.29 PHASE |
| 173 | 28.27 | 29.25 | 595 | 13.36 | 3.26 | 4.73 | 3.75 | 4.42 | 7.83 | 2.11 | 1.88 AMP |
| | | | | 271.73 | 188.25 | 267.12 | 58.37 | 46.59 | 282.94 | 43.48 | 83.53 PHASE |
| 174 | 19.15 | 38.79 | 595 | 19.88 | 5.71 | 5.14 | 3.41 | 3.82 | 12.51 | 4.83 | 1.73 AMP |
| | | | | 291.55 | 181.78 | 255.41 | 24.19 | 332.88 | 314.54 | 352.67 | 97.86 PHASE |
| 175 | 17.89 | 41.44 | 594 | 26.87 | 7.87 | 6.87 | 5.57 | 5.88 | 7.98 | 5.49 | 1.12 AMP |
| | | | | 385.64 | 111.12 | 237.48 | 15.54 | 328.55 | 318.99 | 18.31 | 81.38 PHASE |
| 176 | 15.86 | 47.82 | 595 | 34.88 | 18.13 | 9.65 | 7.62 | 7.81 | 18.41 | 5.11 | 1.46 AMP |
| | | | | 321.88 | 128.57 | 238.43 | 33.83 | 351.82 | 332.81 | 28.63 | 58.81 PHASE |
| 177 | 13.53 | 58.23 | 594 | 43.15 | 11.62 | 13.25 | 9.36 | 7.47 | 13.62 | 7.38 | 1.87 AMP |
| | | | | 329.93 | 125.15 | 247.37 | 48.25 | 357.26 | 5.25 | 5.48 | 45.43 PHASE |
| 179 | 18.46 | 74.44 | 596 | 52.62 | 13.18 | 16.56 | 9.54 | 18.36 | 19.64 | 9.48 | 3.45 AMP |
| | | | | 336.15 | 128.71 | 258.88 | 34.31 | 353.87 | 9.53 | 331.99 | 359.48 PHASE |
| 180 | 8.85 | 95.79 | 595 | 64.88 | 15.27 | 19.85 | 18.75 | 12.88 | 23.66 | 13.56 | 5.78 AMP |
| | | | | 342.81 | 138.61 | 258.77 | 21.64 | 347.32 | 9.75 | 315.32 | 333.49 PHASE |
| 181 | 8.83 | 183.28 | 595 | 75.39 | 16.92 | 24.88 | 18.53 | 8.25 | 18.48 | 18.59 | 6.77 AMP |
| | | | | 348.83 | 135.88 | 249.87 | 359.94 | 389.84 | 17.77 | 348.63 | 351.37 PHASE |
| 182 | 9.31 | 118.48 | 594 | 84.14 | 18.58 | 26.19 | 8.86 | 5.97 | 14.13 | 3.33 | 5.85 AMP |
| | | | | 354.83 | 151.51 | 251.88 | 359.83 | 263.96 | 35.36 | 21.79 | 349.37 PHASE |

TABLE VII.- Continued

(b) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 8 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 5.83 | 6.88 | 595 | 5.32 | .49 | .19 | .82 | 1.81 | .19 | .22 | .11 AMP |
| | | | | 334.51 | 85.86 | 335.56 | 222.33 | 267.89 | 54.98 | 223.38 | 31.43 PHASE |
| 157 | 4.22 | 7.82 | 594 | 5.78 | .36 | .21 | .88 | .96 | .14 | .21 | .84 AMP |
| | | | | 337.41 | 69.39 | .79 | 284.89 | 252.32 | 22.16 | 217.38 | 3.98 PHASE |
| 158 | 2.53 | 8.18 | 595 | 6.55 | .38 | .13 | 1.82 | 1.11 | .11 | .35 | .87 AMP |
| | | | | 343.62 | 53.71 | 35.88 | 213.88 | 258.67 | 355.84 | 288.52 | 325.85 PHASE |
| 159 | .63 | 9.15 | 595 | 7.47 | .33 | .24 | 1.38 | 1.31 | .11 | .31 | .82 AMP |
| | | | | 348.96 | 58.27 | 152.38 | 215.33 | 259.73 | 28.93 | 288.81 | 184.12 PHASE |
| 168 | -1.87 | 18.18 | 594 | 8.24 | .42 | .59 | 1.54 | 1.29 | .28 | .32 | .81 AMP |
| | | | | 356.24 | 76.31 | 177.11 | 229.99 | 285.79 | 74.86 | 219.84 | 286.77 PHASE |
| 161 | -2.84 | 11.82 | 594 | 9.28 | .64 | .96 | 1.68 | 1.33 | .33 | .35 | .85 AMP |
| | | | | 357.93 | 99.45 | 179.84 | 228.58 | 295.48 | 56.19 | 286.16 | 187.67 PHASE |
| 162 | -4.15 | 13.68 | 594 | 18.31 | .96 | 1.42 | 1.77 | 1.34 | .42 | .41 | .17 AMP |
| | | | | 357.48 | 97.49 | 177.43 | 221.25 | 291.99 | 38.27 | 178.48 | 288.14 PHASE |
| 163 | -5.83 | 14.68 | 594 | 11.84 | 1.28 | 1.72 | 1.84 | 1.58 | .44 | .48 | .14 AMP |
| | | | | 357.87 | 97.45 | 176.57 | 221.81 | 295.72 | 24.94 | 182.28 | 216.53 PHASE |
| 164 | 6.67 | 7.38 | 596 | 5.66 | .83 | .25 | .93 | .92 | .38 | .31 | .21 AMP |
| | | | | 329.79 | 95.85 | 311.86 | 238.55 | 273.97 | 41.51 | 288.85 | 24.21 PHASE |
| 165 | 4.99 | 7.68 | 595 | 6.14 | .64 | .19 | .88 | .85 | .38 | .32 | .12 AMP |
| | | | | 348.81 | 93.12 | 346.95 | 235.61 | 383.35 | 72.66 | 245.87 | 74.86 PHASE |
| 166 | 3.17 | 8.36 | 595 | 6.83 | .62 | .18 | .96 | .81 | .17 | .46 | .13 AMP |
| | | | | 346.15 | 83.93 | 313.85 | 233.26 | 295.44 | 74.88 | 243.81 | 147.73 PHASE |
| 167 | 1.28 | 9.48 | 595 | 7.84 | .73 | .23 | 1.29 | .94 | .27 | .59 | .85 AMP |
| | | | | 349.24 | 72.85 | 282.78 | 222.72 | 288.82 | 63.95 | 211.82 | 52.98 PHASE |
| 168 | -.34 | 18.69 | 594 | 8.76 | .98 | .66 | 1.58 | 1.81 | .38 | .54 | .15 AMP |
| | | | | 352.55 | 81.31 | 194.29 | 228.28 | 294.47 | 66.11 | 213.54 | 116.71 PHASE |
| 169 | -2.55 | 13.81 | 595 | 18.22 | 1.37 | 1.38 | 1.58 | 1.13 | .38 | .47 | .21 AMP |
| | | | | 358.36 | 96.18 | 199.39 | 237.31 | 316.83 | 63.84 | 223.68 | 142.86 PHASE |
| 178 | -4.98 | 16.56 | 595 | 12.42 | 2.16 | 2.87 | 1.78 | 1.44 | .27 | .48 | .25 AMP |
| | | | | 359.86 | 94.78 | 194.34 | 238.13 | 315.84 | 341.81 | 222.88 | 147.65 PHASE |
| 171 | -6.41 | 18.89 | 595 | 13.99 | 2.46 | 2.68 | 2.87 | 1.68 | .66 | .79 | .33 AMP |
| | | | | 359.84 | 93.36 | 283.72 | 244.18 | 387.32 | 278.58 | 224.14 | 166.79 PHASE |
| 172 | -8.86 | 28.77 | 595 | 16.81 | 2.88 | 2.68 | 2.15 | 1.61 | 1.88 | 1.88 | .39 AMP |
| | | | | 357.69 | 83.49 | 218.58 | 251.19 | 381.99 | 265.88 | 222.71 | 157.43 PHASE |
| 173 | 7.37 | 8.19 | 595 | 5.91 | 1.35 | .48 | 1.83 | 1.15 | .15 | .33 | .21 AMP |
| | | | | 331.45 | 116.11 | 12.82 | 268.62 | 292.62 | 46.43 | 227.65 | 127.87 PHASE |
| 174 | 5.48 | 8.42 | 595 | 6.32 | 1.17 | .55 | .83 | 1.29 | .18 | .42 | .22 AMP |
| | | | | 334.22 | 188.51 | 17.98 | 247.88 | 269.56 | 86.87 | 219.75 | 135.23 PHASE |
| 175 | 3.86 | 9.83 | 594 | 6.89 | 1.11 | .45 | .98 | 1.15 | .15 | .43 | .25 AMP |
| | | | | 339.58 | 98.17 | 17.73 | 248.98 | 273.37 | 123.58 | 289.34 | 148.49 PHASE |
| 176 | 1.75 | 18.83 | 595 | 7.93 | 1.33 | .89 | 1.22 | 1.26 | .15 | .47 | .29 AMP |
| | | | | 346.68 | 85.62 | 49.58 | 246.24 | 276.46 | 152.34 | 222.67 | 171.96 PHASE |
| 177 | -.38 | 11.96 | 594 | 9.32 | 1.69 | .43 | 1.64 | 1.36 | .87 | .39 | .38 AMP |
| | | | | 351.43 | 87.48 | 282.41 | 249.12 | 293.32 | 314.47 | 241.63 | 168.57 PHASE |
| 179 | -2.64 | 13.98 | 595 | 11.16 | 2.28 | .99 | 1.94 | 1.56 | .32 | .42 | .62 AMP |
| | | | | 353.82 | 87.47 | 286.26 | 243.64 | 277.86 | 314.58 | 245.19 | 142.48 PHASE |
| 188 | -5.45 | 18.29 | 595 | 13.81 | 2.52 | 1.71 | 2.63 | 2.17 | .72 | .69 | .84 AMP |
| | | | | 353.52 | 84.46 | 218.19 | 242.48 | 263.29 | 282.24 | 248.71 | 142.91 PHASE |
| 181 | -8.25 | 21.38 | 595 | 16.88 | 2.52 | 2.51 | 2.99 | 2.57 | 1.58 | 1.25 | .64 AMP |
| | | | | 352.96 | 76.84 | 243.91 | 251.84 | 262.69 | 273.76 | 243.86 | 167.59 PHASE |
| 182 | -18.48 | 23.68 | 594 | 19.29 | 2.84 | 3.69 | 3.18 | 3.88 | 3.44 | 2.35 | 1.87 AMP |
| | | | | 353.24 | 78.27 | 261.93 | 255.29 | 258.23 | 267.58 | 264.83 | 258.45 PHASE |

TABLE VII.- Continued

(b) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 8 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 22.85 | 13.87 | 595 | 8.55 | 4.36 | 4.57 | .64 | .88 | .45 | .61 | .77 AMP |
| | | | | 127.24 | 387.14 | 345.41 | 291.89 | 231.11 | 127.23 | 35.95 | 215.89 PHASE |
| 157 | 23.93 | 14.75 | 594 | 9.76 | 4.71 | 5.85 | .58 | .98 | .31 | .49 | .49 AMP |
| | | | | 127.88 | 299.15 | 339.69 | 289.87 | 214.26 | 112.89 | 11.22 | 152.19 PHASE |
| 158 | 24.96 | 16.56 | 595 | 11.88 | 5.43 | 6.67 | .42 | .88 | .34 | .55 | .65 AMP |
| | | | | 138.21 | 299.78 | 345.87 | 283.39 | 228.64 | 128.62 | 39.88 | 156.31 PHASE |
| 159 | 26.83 | 18.88 | 595 | 12.56 | 6.15 | 7.49 | .25 | .92 | .29 | .47 | .41 AMP |
| | | | | 133.81 | 382.86 | 354.81 | 288.94 | 238.37 | 89.37 | 22.37 | 159.86 PHASE |
| 160 | 27.83 | 28.78 | 594 | 13.68 | 6.76 | 8.34 | .22 | .97 | .38 | .48 | .43 AMP |
| | | | | 137.83 | 387.88 | 7.78 | 384.63 | 253.83 | 91.56 | 14.26 | 165.54 PHASE |
| 161 | 28.89 | 22.99 | 594 | 15.18 | 7.28 | 9.86 | .14 | 1.86 | .32 | .66 | .12 AMP |
| | | | | 137.82 | 383.44 | 5.61 | 342.77 | 257.89 | 71.93 | 357.86 | 114.92 PHASE |
| 162 | 28.78 | 24.41 | 594 | 16.88 | 7.68 | 9.22 | .14 | .97 | .36 | .87 | .59 AMP |
| | | | | 134.96 | 296.64 | 357.73 | 128.73 | 249.28 | 33.85 | 336.46 | 65.48 PHASE |
| 163 | 29.27 | 24.99 | 594 | 16.58 | 7.78 | 9.25 | .29 | 1.81 | .33 | .94 | .43 AMP |
| | | | | 134.28 | 295.78 | 356.78 | 117.58 | 246.28 | 23.74 | 334.92 | 68.88 PHASE |
| 164 | 21.88 | 14.98 | 595 | 9.68 | 5.34 | 4.28 | .89 | 1.82 | .52 | 1.14 | 1.42 AMP |
| | | | | 124.69 | 383.69 | 345.88 | 286.52 | 238.21 | 128.18 | 24.18 | 218.38 PHASE |
| 165 | 21.98 | 16.22 | 595 | 18.81 | 5.96 | 5.46 | .93 | 1.81 | .44 | 1.89 | .97 AMP |
| | | | | 131.28 | 388.79 | 359.88 | 311.37 | 258.15 | 135.66 | 54.32 | 248.89 PHASE |
| 166 | 23.18 | 18.56 | 595 | 12.88 | 6.56 | 6.34 | .84 | 1.88 | .41 | 1.48 | .56 AMP |
| | | | | 134.19 | 387.32 | 4.21 | 315.79 | 265.39 | 124.89 | 59.86 | 249.98 PHASE |
| 167 | 24.12 | 21.32 | 595 | 13.68 | 7.23 | 7.13 | .77 | 1.88 | .44 | 1.63 | .61 AMP |
| | | | | 133.65 | 388.78 | .68 | 318.22 | 257.21 | 95.68 | 41.97 | 285.63 PHASE |
| 168 | 24.95 | 22.96 | 594 | 14.88 | 7.68 | 7.62 | .66 | 1.81 | .39 | 1.64 | .26 AMP |
| | | | | 133.61 | 298.89 | 2.83 | 312.24 | 259.27 | 78.83 | 39.72 | 243.33 PHASE |
| 169 | 25.95 | 24.41 | 595 | 15.99 | 7.76 | 8.19 | .62 | 1.12 | .43 | 1.67 | .25 AMP |
| | | | | 135.26 | 297.36 | 8.88 | 316.25 | 278.94 | 78.32 | 41.37 | 348.58 PHASE |
| 170 | 26.87 | 25.68 | 595 | 17.17 | 8.18 | 8.49 | .38 | 1.28 | .47 | 2.83 | .88 AMP |
| | | | | 132.31 | 291.41 | 1.18 | 293.67 | 262.77 | 42.27 | 17.84 | 346.28 PHASE |
| 171 | 27.11 | 26.13 | 595 | 17.35 | 8.71 | 7.95 | .19 | 1.23 | .61 | 2.52 | 1.43 AMP |
| | | | | 131.59 | 298.48 | .86 | 256.37 | 268.99 | 25.39 | 14.43 | 342.83 PHASE |
| 172 | 27.47 | 26.19 | 595 | 17.48 | 9.13 | 7.78 | .35 | 1.18 | .89 | 2.88 | 1.62 AMP |
| | | | | 129.98 | 298.79 | 351.68 | 181.61 | 268.25 | 25.88 | 13.88 | 335.19 PHASE |
| 173 | 18.97 | 16.83 | 595 | 18.58 | 6.15 | 3.61 | .59 | 1.87 | .95 | 1.43 | .54 AMP |
| | | | | 131.13 | 313.18 | 359.79 | 388.67 | 248.49 | 128.32 | 73.99 | 291.84 PHASE |
| 174 | 28.81 | 17.15 | 595 | 11.84 | 6.62 | 4.76 | .69 | .88 | 1.56 | .68 | .68 AMP |
| | | | | 138.88 | 382.55 | 353.37 | 298.32 | 219.23 | 118.83 | 53.88 | 336.24 PHASE |
| 175 | 28.88 | 19.71 | 594 | 12.94 | 7.14 | 5.33 | .64 | .83 | .78 | 1.55 | .61 AMP |
| | | | | 131.79 | 299.66 | 356.81 | 387.49 | 225.86 | 188.61 | 58.43 | 358.36 PHASE |
| 176 | 21.76 | 21.48 | 595 | 14.38 | 7.58 | 5.82 | .62 | .73 | .77 | 1.75 | .93 AMP |
| | | | | 134.71 | 388.28 | 5.85 | 316.86 | 226.12 | 183.89 | 68.88 | 17.29 PHASE |
| 177 | 22.54 | 22.54 | 594 | 16.65 | 8.84 | 6.16 | .61 | .66 | .75 | 1.69 | 1.88 AMP |
| | | | | 134.98 | 388.85 | 8.25 | 338.48 | 249.28 | 98.43 | 68.75 | 3.88 PHASE |
| 179 | 23.25 | 24.64 | 596 | 16.83 | 8.68 | 6.45 | .67 | .34 | .84 | 1.96 | 2.84 AMP |
| | | | | 133.17 | 296.44 | 6.16 | 345.48 | 253.18 | 56.67 | 52.68 | 349.24 PHASE |
| 180 | 23.87 | 26.69 | 595 | 17.89 | 9.47 | 6.46 | .42 | 1.18 | 1.27 | 2.52 | 4.89 AMP |
| | | | | 131.85 | 294.84 | 359.84 | 28.73 | 178.33 | 38.83 | 38.77 | 343.14 PHASE |
| 181 | 24.49 | 28.44 | 595 | 18.29 | 18.82 | 6.22 | .33 | .15 | 1.63 | 2.91 | 4.54 AMP |
| | | | | 131.34 | 294.39 | 345.39 | 98.43 | 88.89 | 27.97 | 36.16 | 351.26 PHASE |
| 182 | 24.73 | 27.34 | 594 | 17.91 | 12.63 | 5.59 | .51 | .36 | 1.48 | 2.89 | 3.79 AMP |
| | | | | 131.28 | 388.85 | 333.38 | 157.56 | 46.38 | 52.36 | 42.85 | 12.15 PHASE |

TABLE VII.- Continued

(b) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 8 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 24.48 | 26.92 | 595 | 6.22 | 1.56 | 2.68 | 5.55 | 2.57 | 13.24 | 2.66 | 1.48 AMP |
| 157 | 24.85 | 33.61 | 594 | 297.18 | 127.37 | 266.34 | 39.84 | 17.41 | 325.84 | 337.33 | 133.65 PHASE |
| 158 | 24.85 | 41.91 | 595 | 11.93 | 2.85 | 4.28 | 7.28 | 4.76 | 13.67 | 2.14 | 1.37 AMP |
| 159 | 23.89 | 55.22 | 595 | 312.73 | 116.61 | 224.24 | 18.84 | 328.24 | 326.89 | 359.83 | 128.22 PHASE |
| 160 | 23.27 | 66.88 | 594 | 18.97 | 3.89 | 7.92 | 9.43 | 5.16 | 11.99 | 2.95 | 1.95 AMP |
| 161 | 21.95 | 79.37 | 594 | 326.74 | 121.92 | 225.92 | 21.46 | 338.21 | 338.58 | 288.84 | 138.81 PHASE |
| 162 | 28.46 | 86.53 | 594 | 27.84 | 4.48 | 12.12 | 11.87 | 5.21 | 12.68 | 6.73 | 2.86 AMP |
| 163 | 19.78 | 93.38 | 594 | 334.52 | 129.16 | 237.38 | 23.62 | 339.25 | 329.19 | 258.86 | 123.88 PHASE |
| 164 | 22.18 | 25.52 | 596 | 34.27 | 4.59 | 16.18 | 13.98 | 4.32 | 13.77 | 18.61 | 2.88 AMP |
| 165 | 21.88 | 32.34 | 595 | 342.17 | 137.86 | 253.57 | 34.13 | 351.98 | 356.58 | 385.88 | 134.98 PHASE |
| 166 | 21.67 | 36.55 | 595 | 43.37 | 5.44 | 21.11 | 16.58 | 2.92 | 13.95 | 12.82 | 2.81 AMP |
| 167 | 21.19 | 51.82 | 595 | 342.78 | 131.92 | 253.85 | 22.88 | 318.68 | 351.78 | 314.87 | 98.83 PHASE |
| 168 | 19.98 | 61.95 | 594 | 52.88 | 5.99 | 24.46 | 18.84 | 3.73 | 14.18 | 12.71 | 2.92 AMP |
| 169 | 17.92 | 78.79 | 595 | 342.72 | 127.59 | 246.23 | 4.89 | 231.52 | 328.92 | 389.75 | 55.39 PHASE |
| 170 | 15.83 | 88.26 | 595 | 57.14 | 6.46 | 26.85 | 19.86 | 5.85 | 16.66 | 12.78 | 2.52 AMP |
| 171 | 13.98 | 93.57 | 595 | 342.66 | 138.46 | 245.34 | 354.95 | 217.19 | 332.68 | 317.63 | 47.48 PHASE |
| 172 | 13.78 | 109.11 | 595 | 8.97 | 2.58 | 3.63 | 4.56 | 3.14 | 9.84 | 3.76 | 1.12 AMP |
| 173 | 21.38 | 31.59 | 595 | 279.29 | 188.87 | 262.18 | 37.38 | 26.87 | 279.62 | 343.83 | 136.47 PHASE |
| 174 | 28.61 | 43.45 | 595 | 14.86 | 4.37 | 3.86 | 5.48 | 3.83 | 8.79 | 5.99 | 1.77 AMP |
| 175 | 28.82 | 44.24 | 594 | 298.68 | 112.48 | 258.98 | 31.49 | 331.89 | 6.81 | 28.16 | 159.42 PHASE |
| 176 | 18.33 | 51.31 | 595 | 28.98 | 5.86 | 6.59 | 7.73 | 7.12 | 4.35 | 4.12 | 1.66 AMP |
| 177 | 16.85 | 66.81 | 594 | 316.25 | 128.38 | 241.87 | 38.61 | 349.42 | 331.57 | 66.94 | 144.97 PHASE |
| 178 | 16.05 | 66.81 | 594 | 29.88 | 7.38 | 18.35 | 9.71 | 7.32 | 9.88 | 3.32 | 3.84 AMP |
| 179 | 12.88 | 81.34 | 596 | 324.98 | 119.34 | 248.37 | 25.39 | 357.17 | 316.43 | 313.84 | 122.39 PHASE |
| 180 | 9.88 | 97.88 | 595 | 35.64 | 8.45 | 13.78 | 11.14 | 7.69 | 11.73 | 7.41 | 2.67 AMP |
| 181 | 8.91 | 99.69 | 595 | 329.78 | 123.57 | 246.13 | 29.19 | 354.42 | 332.66 | 318.86 | 115.22 PHASE |
| 182 | 9.32 | 104.76 | 594 | 45.17 | 9.73 | 18.13 | 12.94 | 8.73 | 15.39 | 12.19 | 2.43 AMP |
| | | | | 335.98 | 126.57 | 257.89 | 32.22 | 357.89 | 3.74 | 338.22 | 112.69 PHASE |
| | | | | 58.22 | 11.38 | 23.58 | 15.82 | 6.95 | 14.91 | 15.69 | 2.25 AMP |
| | | | | 339.11 | 122.12 | 254.47 | 15.58 | 342.84 | 2.73 | 324.69 | 31.64 PHASE |
| | | | | 64.87 | 13.61 | 25.94 | 14.48 | 7.85 | 15.67 | 14.34 | 3.87 AMP |
| | | | | 343.38 | 127.69 | 254.58 | 12.79 | 296.61 | 354.42 | 348.58 | 8.87 PHASE |
| | | | | 78.41 | 16.85 | 29.43 | 14.28 | 12.88 | 23.44 | 13.53 | 2.88 AMP |
| | | | | 347.26 | 134.46 | 249.23 | 358.43 | 271.83 | 346.32 | 3.89 | 348.34 PHASE |
| | | | | 12.56 | 3.88 | 4.29 | 4.18 | 4.53 | 9.35 | 3.85 | 1.89 AMP |
| | | | | 272.24 | 182.13 | 277.76 | 59.61 | 47.78 | 285.58 | 52.44 | 79.99 PHASE |
| | | | | 18.18 | 5.21 | 4.89 | 4.29 | 3.82 | 15.25 | 5.22 | 2.32 AMP |
| | | | | 289.88 | 188.23 | 267.42 | 27.47 | 333.79 | 317.88 | .16 | 181.16 PHASE |
| | | | | 23.46 | 7.19 | 5.51 | 6.56 | 5.84 | 9.81 | 7.26 | 1.48 AMP |
| | | | | 381.58 | 187.42 | 258.32 | 22.84 | 319.75 | 322.86 | 24.37 | 98.93 PHASE |
| | | | | 38.75 | 9.45 | 8.47 | 8.76 | 7.38 | 12.65 | 6.63 | 1.68 AMP |
| | | | | 316.43 | 115.81 | 249.76 | 39.21 | 354.98 | 335.55 | 39.99 | 88.47 PHASE |
| | | | | 39.18 | 18.88 | 11.68 | 18.82 | 8.29 | 16.77 | 8.85 | 1.99 AMP |
| | | | | 324.58 | 118.65 | 256.38 | 43.81 | 1.82 | 8.64 | 15.48 | 61.13 PHASE |
| | | | | 48.14 | 12.58 | 14.82 | 11.44 | 11.88 | 24.67 | 18.95 | 4.58 AMP |
| | | | | 338.22 | 128.89 | 258.81 | 34.83 | 359.85 | 13.28 | 348.64 | 3.89 PHASE |
| | | | | 58.31 | 15.86 | 18.61 | 13.61 | 13.98 | 29.97 | 15.84 | 8.25 AMP |
| | | | | 336.77 | 123.86 | 257.22 | 28.69 | 355.28 | 13.94 | 322.14 | 338.59 PHASE |
| | | | | 67.58 | 18.13 | 25.89 | 14.13 | 8.65 | 23.48 | 12.61 | 18.17 AMP |
| | | | | 343.69 | 138.22 | 254.65 | 3.42 | 318.69 | 22.11 | 352.59 | 354.88 PHASE |
| | | | | 73.68 | 28.53 | 27.85 | 12.82 | 6.48 | 18.18 | 4.25 | 9.81 AMP |
| | | | | 358.68 | 148.41 | 258.53 | 2.17 | 278.42 | 41.69 | 49.29 | 355.52 PHASE |

TABLE VII.- Continued

(b) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 2.86 | 5.93 | 595 | 4.46 | .34 | .17 | .62 | .83 | .24 | .18 | .15 AMP |
| 157 | 1.88 | 5.87 | 594 | 343.81 | 115.19 | .14 | 249.42 | 295.32 | 79.16 | 264.57 | 97.13 PHASE |
| 158 | .83 | 6.72 | 595 | 4.81 | .28 | .17 | .58 | .77 | .18 | .16 | .11 AMP |
| 159 | -1.64 | 7.36 | 595 | 346.53 | 116.74 | 29.88 | 238.12 | 279.62 | 59.28 | 257.94 | 65.64 PHASE |
| 160 | -3.13 | 8.84 | 594 | 5.39 | .11 | .16 | .71 | .92 | .12 | .26 | .11 AMP |
| 161 | -4.73 | 9.41 | 594 | 352.33 | 135.68 | 72.57 | 236.51 | 278.45 | 39.91 | 252.98 | 45.61 PHASE |
| 162 | -5.89 | 18.63 | 594 | 6.83 | .13 | .15 | .97 | 1.11 | .14 | .24 | .85 AMP |
| 163 | -6.78 | 11.32 | 594 | 357.46 | 156.88 | 134.47 | 236.68 | 287.18 | 68.44 | 245.52 | 99.47 PHASE |
| 164 | 3.53 | 6.15 | 596 | 4.72 | .18 | .33 | 1.12 | 1.11 | .21 | .25 | .83 AMP |
| 165 | 2.18 | 6.41 | 595 | 4.72 | 168.24 | 179.88 | 249.98 | 312.47 | 98.84 | 254.43 | 124.83 PHASE |
| 166 | .54 | 6.94 | 595 | 7.33 | .38 | .59 | 1.25 | 1.13 | .33 | .28 | .81 AMP |
| 167 | -1.13 | 7.58 | 595 | 5.98 | 159.24 | 186.19 | 248.81 | 322.22 | 98.63 | 237.58 | 147.39 PHASE |
| 168 | -2.48 | 8.27 | 594 | 8.86 | .57 | .92 | 1.32 | 1.14 | .42 | .36 | .11 AMP |
| 169 | -4.31 | 9.74 | 595 | 5.14 | 142.82 | 185.87 | 248.65 | 319.66 | 71.88 | 287.53 | 275.86 PHASE |
| 170 | -6.33 | 12.41 | 595 | 8.56 | .77 | 1.13 | 1.38 | 1.26 | .46 | .35 | .18 AMP |
| 171 | -7.54 | 13.84 | 595 | 5.39 | 133.98 | 182.98 | 248.18 | 323.12 | 68.59 | 289.67 | 281.99 PHASE |
| 172 | -8.96 | 15.32 | 595 | 4.76 | .69 | .27 | .72 | .81 | .33 | .22 | .19 AMP |
| 173 | 4.83 | 6.88 | 595 | 338.34 | 117.48 | 338.86 | 255.76 | 382.79 | 73.12 | 258.46 | 99.51 PHASE |
| 174 | 2.48 | 6.98 | 595 | 5.12 | .52 | .23 | .61 | .72 | .32 | .24 | .15 AMP |
| 175 | 1.12 | 7.28 | 594 | 348.33 | 126.53 | 8.84 | 268.99 | 338.98 | 185.33 | 295.74 | 143.97 PHASE |
| 176 | -6.65 | 7.78 | 595 | 5.64 | .48 | .14 | .78 | .66 | .18 | .33 | .14 AMP |
| 177 | -2.32 | 8.93 | 594 | 354.48 | 124.31 | 15.89 | 257.76 | 321.98 | 188.89 | 294.97 | 179.82 PHASE |
| 178 | -4.28 | 18.18 | 596 | 6.38 | .34 | .83 | .88 | .78 | .27 | .43 | .88 AMP |
| 179 | -6.46 | 13.34 | 595 | 357.23 | 113.78 | 248.18 | 246.18 | 385.62 | 89.38 | 258.98 | 127.98 PHASE |
| 180 | -8.91 | 16.42 | 595 | 6.81 | .37 | .25 | 1.87 | .89 | .35 | .48 | .14 AMP |
| 181 | -18.78 | 19.28 | 594 | .27 | 116.62 | 285.84 | 247.28 | 318.88 | 98.96 | 255.38 | 168.54 PHASE |
| 182 | | | | 7.68 | .56 | .68 | 1.27 | 1.83 | .43 | .38 | .17 AMP |
| | | | | 5.38 | 117.21 | 281.87 | 254.83 | 341.18 | 98.78 | 261.56 | 186.54 PHASE |
| | | | | 9.14 | 1.81 | 1.26 | 1.52 | 1.36 | .48 | .48 | .19 AMP |
| | | | | 5.16 | 186.99 | 192.71 | 252.44 | 348.36 | 52.81 | 264.48 | 184.16 PHASE |
| | | | | 18.22 | 1.15 | 1.55 | 1.78 | 1.53 | .48 | .71 | .23 AMP |
| | | | | 4.49 | 181.18 | 282.96 | 258.82 | 336.88 | 335.53 | 271.82 | 212.58 PHASE |
| | | | | 11.66 | 1.38 | 1.44 | 1.83 | 1.56 | .62 | .95 | .25 AMP |
| | | | | 2.31 | 82.86 | 288.93 | 265.88 | 333.33 | 388.12 | 278.18 | 213.25 PHASE |
| | | | | 4.98 | 1.18 | .48 | .81 | 1.88 | .17 | .19 | .28 AMP |
| | | | | 348.82 | 131.96 | 18.78 | 294.35 | 321.37 | 99.45 | 272.27 | 189.61 PHASE |
| | | | | 5.28 | .94 | .52 | .64 | 1.85 | .18 | .32 | .19 AMP |
| | | | | 342.41 | 124.61 | 19.42 | 276.38 | 388.58 | 113.75 | 261.16 | 195.93 PHASE |
| | | | | 5.57 | .88 | .58 | .64 | .93 | .18 | .32 | .28 AMP |
| | | | | 347.58 | 121.17 | 21.78 | 268.95 | 381.91 | 162.25 | 257.32 | 199.31 PHASE |
| | | | | 6.18 | .71 | .33 | .84 | 1.85 | .12 | .34 | .22 AMP |
| | | | | 354.33 | 115.31 | 25.72 | 278.88 | 388.15 | 174.87 | 267.56 | 224.69 PHASE |
| | | | | 6.99 | .79 | .82 | 1.23 | 1.18 | .87 | .32 | .28 AMP |
| | | | | 358.38 | 186.78 | 17.73 | 267.99 | 318.61 | 61.42 | 292.95 | 213.21 PHASE |
| | | | | 8.88 | .98 | .48 | 1.68 | 1.31 | .21 | .35 | .46 AMP |
| | | | | 359.48 | 94.53 | 286.75 | 261.29 | 388.37 | 344.54 | 384.39 | 188.14 PHASE |
| | | | | 9.85 | 1.15 | .98 | 2.38 | 1.74 | .65 | .59 | .64 AMP |
| | | | | 357.77 | 79.35 | 218.11 | 261.42 | 293.48 | 385.79 | 388.56 | 192.58 PHASE |
| | | | | 12.14 | 1.39 | 1.29 | 2.79 | 2.87 | 1.48 | 1.81 | .57 AMP |
| | | | | 355.67 | 56.25 | 249.87 | 273.11 | 294.99 | 384.83 | 299.53 | 226.93 PHASE |
| | | | | 14.88 | 1.58 | 1.83 | 3.19 | 2.99 | 3.18 | 2.85 | 1.81 AMP |
| | | | | 354.55 | 37.86 | 267.81 | 278.94 | 283.77 | 299.87 | 312.92 | 384.87 PHASE |

TABLE VII.- Continued

(b) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | B | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | .13 | 18.64 | 595 | 13.14 | 4.81 | 3.24 | 1.85 | 3.38 | .32 | .78 | 1.27 AMP |
| | | | | 137.37 | 318.89 | 318.44 | 148.95 | 217.68 | 62.69 | 186.81 | 38.86 PHASE |
| 157 | 1.86 | 18.95 | 594 | 13.89 | 4.29 | 3.95 | 1.82 | 3.15 | .46 | .59 | .91 AMP |
| | | | | 137.87 | 389.39 | 388.89 | 114.93 | 288.21 | 41.57 | 158.86 | 338.83 PHASE |
| 158 | 3.59 | 22.89 | 595 | 15.85 | 4.83 | 4.58 | 1.17 | 3.38 | .44 | .49 | 1.11 AMP |
| | | | | 148.73 | 389.53 | 318.64 | 188.72 | 288.83 | 44.43 | 188.78 | 343.38 PHASE |
| 159 | 5.51 | 24.17 | 595 | 16.22 | 5.88 | 4.99 | 1.26 | 3.78 | .39 | .41 | .75 AMP |
| | | | | 143.57 | 388.33 | 338.26 | 98.74 | 286.45 | 36.38 | 162.87 | 348.83 PHASE |
| 160 | 7.23 | 25.55 | 594 | 17.22 | 6.54 | 5.52 | 1.41 | 3.89 | .58 | .59 | .67 AMP |
| | | | | 148.78 | 311.76 | 347.23 | 184.27 | 229.68 | 61.35 | 168.84 | 348.37 PHASE |
| 161 | 8.89 | 27.63 | 594 | 18.68 | 7.32 | 6.88 | 1.65 | 4.88 | .58 | .84 | .22 AMP |
| | | | | 148.56 | 386.88 | 347.38 | 93.42 | 232.94 | 48.68 | 158.43 | 296.71 PHASE |
| 162 | 18.87 | 29.33 | 594 | 19.86 | 7.84 | 6.33 | 1.65 | 3.78 | .68 | 1.84 | .88 AMP |
| | | | | 146.63 | 297.79 | 341.35 | 74.21 | 221.64 | 27.89 | 138.49 | 247.26 PHASE |
| 163 | 18.86 | 29.99 | 594 | 28.54 | 8.28 | 6.45 | 1.84 | 3.72 | .68 | 1.87 | .68 AMP |
| | | | | 146.29 | 296.85 | 341.43 | 67.55 | 223.68 | 13.18 | 132.98 | 243.76 PHASE |
| 164 | -1.67 | 28.82 | 596 | 14.31 | 4.87 | 2.93 | 1.36 | 3.48 | .41 | 1.28 | 1.96 AMP |
| | | | | 133.71 | 315.86 | 382.73 | 136.27 | 228.88 | 35.21 | 184.32 | 31.38 PHASE |
| 165 | -.81 | 28.71 | 595 | 15.23 | 5.32 | 3.53 | 1.13 | 3.12 | .58 | 1.12 | 1.31 AMP |
| | | | | 148.39 | 319.83 | 328.47 | 139.31 | 257.93 | 65.96 | 213.62 | 59.22 PHASE |
| 166 | 1.77 | 22.44 | 595 | 16.24 | 5.87 | 3.94 | 1.86 | 2.79 | .63 | 1.42 | .79 AMP |
| | | | | 143.76 | 317.46 | 329.98 | 121.84 | 258.85 | 68.88 | 222.94 | 57.16 PHASE |
| 167 | 3.68 | 24.86 | 595 | 17.67 | 6.67 | 4.45 | .99 | 2.97 | .76 | 1.53 | .86 AMP |
| | | | | 144.19 | 318.27 | 328.98 | 95.88 | 243.91 | 56.56 | 284.28 | 15.87 PHASE |
| 168 | 5.16 | 26.58 | 594 | 18.66 | 7.23 | 4.54 | .98 | 3.13 | .82 | 1.48 | .23 AMP |
| | | | | 145.38 | 386.39 | 333.12 | 76.71 | 245.72 | 55.98 | 199.71 | 54.44 PHASE |
| 169 | 7.13 | 28.88 | 595 | 28.18 | 7.67 | 4.82 | 1.21 | 3.27 | .96 | 1.51 | .51 AMP |
| | | | | 148.85 | 385.38 | 342.55 | 57.98 | 261.98 | 67.54 | 199.85 | 198.68 PHASE |
| 170 | 9.11 | 38.48 | 595 | 21.97 | 8.21 | 5.82 | 1.48 | 3.36 | 1.85 | 1.82 | 1.41 AMP |
| | | | | 146.75 | 298.14 | 334.84 | 31.24 | 268.62 | 47.34 | 175.24 | 176.25 PHASE |
| 171 | 9.82 | 31.82 | 595 | 22.71 | 8.64 | 4.62 | 1.84 | 3.44 | 1.88 | 2.45 | 2.35 AMP |
| | | | | 146.98 | 297.68 | 332.77 | 22.81 | 284.36 | 49.86 | 178.41 | 178.17 PHASE |
| 172 | 18.44 | 32.95 | 595 | 23.26 | 9.26 | 4.98 | 2.41 | 2.88 | 1.83 | 2.75 | 2.63 AMP |
| | | | | 146.81 | 297.82 | 322.34 | 28.48 | 298.89 | 46.14 | 181.88 | 165.18 PHASE |
| 173 | -3.36 | 21.75 | 595 | 14.85 | 5.58 | 2.98 | 1.78 | 3.82 | .45 | 1.54 | .64 AMP |
| | | | | 137.95 | 319.58 | 386.94 | 174.25 | 248.37 | 357.84 | 243.86 | 187.41 PHASE |
| 174 | -1.62 | 23.16 | 595 | 15.83 | 5.98 | 3.41 | 1.13 | 4.29 | .43 | 1.76 | .75 AMP |
| | | | | 137.73 | 388.41 | 386.37 | 164.88 | 237.35 | 313.12 | 222.58 | 163.94 PHASE |
| 175 | -.11 | 24.17 | 594 | 16.64 | 6.42 | 3.61 | .78 | 4.12 | .16 | 1.75 | .96 AMP |
| | | | | 148.57 | 385.59 | 313.42 | 163.65 | 244.55 | 316.66 | 214.16 | 176.67 PHASE |
| 176 | 1.88 | 25.89 | 595 | 17.86 | 6.87 | 3.58 | .53 | 3.78 | .18 | 1.78 | 1.39 AMP |
| | | | | 144.42 | 386.11 | 326.87 | 157.41 | 247.64 | 343.36 | 233.78 | 193.58 PHASE |
| 177 | 3.48 | 27.96 | 594 | 19.89 | 7.31 | 3.57 | .28 | 3.71 | .47 | 1.78 | 2.21 AMP |
| | | | | 146.35 | 386.18 | 332.45 | 124.79 | 262.18 | 332.25 | 235.51 | 181.63 PHASE |
| 179 | 5.27 | 31.83 | 596 | 28.58 | 7.73 | 3.88 | .41 | 2.94 | .67 | 1.85 | 4.86 AMP |
| | | | | 145.96 | 381.57 | 332.63 | 73.88 | 259.87 | 342.43 | 228.72 | 167.11 PHASE |
| 180 | 7.24 | 33.28 | 595 | 22.58 | 7.69 | 2.31 | .85 | 1.36 | .64 | 2.47 | 5.91 AMP |
| | | | | 144.85 | 299.28 | 323.51 | 92.14 | 252.66 | 15.84 | 285.76 | 161.98 PHASE |
| 181 | 8.69 | 35.61 | 595 | 23.91 | 8.27 | 2.16 | 1.98 | 1.18 | .64 | 3.28 | 6.66 AMP |
| | | | | 144.42 | 382.88 | 388.83 | 76.36 | 65.54 | 71.21 | 282.95 | 178.84 PHASE |
| 182 | 9.86 | 36.43 | 594 | 24.28 | 9.69 | 2.61 | 2.76 | 2.18 | .17 | 2.56 | 5.65 AMP |
| | | | | 145.47 | 388.85 | 287.24 | 75.91 | 89.98 | 124.35 | 211.85 | 193.44 PHASE |

TABLE VII.- Continued

(b) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | RUN NO | | RPM | B | | | | | | | |
| | MEAN | 1/2 P-P | | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 156 | 14.41 | 16.62 | 595 | 5.85 | 1.91 | 3.82 | 2.85 | 1.68 | 5.14 | .78 | 1.83 AMP |
| 157 | 15.89 | 15.21 | 594 | 154.57 | 321.35 | 388.77 | 51.86 | 227.87 | 319.65 | 316.45 | 66.66 PHASE |
| 158 | 17.85 | 15.15 | 595 | 3.72 | 1.93 | 3.39 | 2.84 | 2.18 | 5.46 | .63 | .48 AMP |
| 159 | 18.58 | 19.28 | 595 | 159.18 | 319.56 | 295.54 | 28.26 | 241.88 | 322.81 | 14.32 | 52.93 PHASE |
| 160 | 19.48 | 22.65 | 594 | 2.21 | 2.88 | 4.18 | 3.88 | 1.88 | 4.88 | 1.46 | .53 AMP |
| 161 | 20.82 | 26.66 | 594 | 172.18 | 323.65 | 293.58 | 31.25 | 246.23 | 326.69 | 191.38 | 78.82 PHASE |
| 162 | 22.82 | 28.27 | 594 | .97 | 2.68 | 5.18 | 4.99 | 2.85 | 5.88 | 2.71 | .75 AMP |
| 163 | 24.82 | 29.88 | 594 | 228.98 | 328.69 | 297.11 | 32.35 | 245.98 | 323.34 | 242.77 | 95.26 PHASE |
| 164 | 26.82 | 31.88 | 594 | 1.83 | 3.15 | 6.35 | 5.95 | 2.48 | 5.69 | 3.96 | .66 AMP |
| 165 | 28.82 | 33.88 | 594 | 388.24 | 323.98 | 388.42 | 43.43 | 258.82 | 351.93 | 294.58 | 119.43 PHASE |
| 166 | 30.82 | 35.88 | 594 | 3.72 | 3.78 | 7.88 | 7.12 | 3.31 | 6.84 | 4.68 | .78 AMP |
| 167 | 32.82 | 37.88 | 594 | 313.64 | 321.29 | 383.31 | 33.88 | 246.26 | 346.22 | 385.82 | 85.79 PHASE |
| 168 | 34.82 | 39.88 | 594 | 5.47 | 4.84 | 8.65 | 7.56 | 3.96 | 6.13 | 4.53 | .59 AMP |
| 169 | 36.82 | 41.88 | 594 | 318.32 | 314.72 | 293.83 | 16.33 | 221.88 | 324.68 | 382.98 | 35.39 PHASE |
| 170 | 38.82 | 43.88 | 594 | 6.56 | 4.28 | 9.86 | 7.78 | 4.44 | 7.17 | 4.68 | .58 AMP |
| 171 | 40.82 | 45.88 | 594 | 319.43 | 312.87 | 291.57 | 9.15 | 217.66 | 326.78 | 312.17 | 19.38 PHASE |
| 172 | 42.82 | 47.88 | 594 | 5.73 | 2.33 | 2.91 | 1.73 | 1.49 | 3.77 | 1.95 | 1.38 AMP |
| 173 | 44.82 | 49.88 | 594 | 155.78 | 323.88 | 298.58 | 59.76 | 246.87 | 275.63 | 323.29 | 51.98 PHASE |
| 174 | 46.82 | 51.88 | 594 | 4.73 | 2.36 | 3.31 | 2.88 | 2.98 | 3.88 | 1.91 | 1.18 AMP |
| 175 | 48.82 | 53.88 | 594 | 172.15 | 335.92 | 313.68 | 48.58 | 288.28 | 4.92 | 12.35 | 183.27 PHASE |
| 176 | 50.82 | 55.88 | 594 | 3.29 | 2.38 | 3.56 | 3.15 | 3.26 | 2.81 | 1.24 | .98 AMP |
| 177 | 52.82 | 57.88 | 594 | 198.59 | 336.81 | 318.34 | 42.86 | 384.76 | 345.17 | 82.67 | 113.98 PHASE |
| 178 | 54.82 | 59.88 | 594 | 2.35 | 2.62 | 4.54 | 4.12 | 2.73 | 3.88 | 1.85 | 1.49 AMP |
| 179 | 56.82 | 61.88 | 594 | 222.85 | 331.28 | 383.81 | 34.75 | 382.72 | 321.85 | 269.73 | 99.99 PHASE |
| 180 | 58.82 | 63.88 | 594 | 2.53 | 2.75 | 5.37 | 4.88 | 3.86 | 5.23 | 2.49 | 1.59 AMP |
| 181 | 60.82 | 65.88 | 594 | 261.64 | 326.27 | 381.59 | 35.61 | 381.28 | 333.62 | 299.68 | 111.66 PHASE |
| 182 | 62.82 | 67.88 | 594 | 4.16 | 3.82 | 6.78 | 5.88 | 3.88 | 7.88 | 4.23 | 1.54 AMP |
| 183 | 64.82 | 69.88 | 594 | 294.93 | 329.84 | 386.62 | 36.42 | 313.88 | 1.99 | 319.28 | 134.83 PHASE |
| 184 | 66.82 | 71.88 | 594 | 6.78 | 3.28 | 8.88 | 6.45 | 4.28 | 7.13 | 5.43 | .74 AMP |
| 185 | 68.82 | 73.88 | 594 | 312.55 | 332.37 | 294.18 | 19.55 | 388.47 | 359.24 | 316.56 | 125.61 PHASE |
| 186 | 70.82 | 75.88 | 594 | 7.25 | 2.15 | 8.88 | 5.62 | 5.61 | 7.35 | 4.88 | .59 AMP |
| 187 | 72.82 | 77.88 | 594 | 323.82 | 339.88 | 283.74 | 15.72 | 282.22 | 349.32 | 341.87 | 141.78 PHASE |
| 188 | 74.82 | 79.88 | 594 | 7.57 | .68 | 9.43 | 5.27 | 7.25 | 18.51 | 4.55 | .98 AMP |
| 189 | 76.82 | 81.88 | 594 | 336.22 | 347.11 | 266.27 | 355.66 | 273.99 | 341.18 | 359.21 | 173.23 PHASE |
| 190 | 78.82 | 83.88 | 594 | 6.29 | 2.76 | 3.85 | 1.42 | 1.33 | 3.71 | .58 | .87 AMP |
| 191 | 80.82 | 85.88 | 594 | 167.87 | 328.88 | 383.73 | 188.21 | 278.93 | 283.96 | 19.84 | 91.58 PHASE |
| 192 | 82.82 | 87.88 | 594 | 8.22 | 2.61 | 3.49 | 1.38 | 3.82 | 6.31 | 1.68 | 1.48 AMP |
| 193 | 84.82 | 89.88 | 594 | 179.88 | 324.61 | 382.33 | 51.28 | 251.18 | 318.47 | 338.66 | 128.26 PHASE |
| 194 | 86.82 | 91.88 | 594 | 4.48 | 2.48 | 3.39 | 2.26 | 3.93 | 4.14 | 2.18 | 1.18 AMP |
| 195 | 88.82 | 93.88 | 594 | 194.36 | 327.39 | 383.24 | 35.16 | 268.15 | 319.45 | 16.89 | 135.58 PHASE |
| 196 | 90.82 | 95.88 | 594 | 3.39 | 2.27 | 3.68 | 3.28 | 3.87 | 5.25 | 1.98 | 1.46 AMP |
| 197 | 92.82 | 97.88 | 594 | 222.58 | 336.72 | 386.82 | 48.32 | 294.12 | 331.57 | 35.47 | 158.32 PHASE |
| 198 | 94.82 | 99.88 | 594 | 3.44 | 2.37 | 4.29 | 4.12 | 3.68 | 7.45 | 2.97 | 2.81 AMP |
| 199 | 96.82 | 101.88 | 594 | 258.81 | 348.93 | 386.79 | 49.68 | 388.83 | .91 | 8.93 | 158.48 PHASE |
| 200 | 98.82 | 103.88 | 594 | 4.54 | 2.44 | 4.86 | 4.55 | 4.59 | 11.15 | 3.63 | 1.87 AMP |
| 201 | 100.82 | 105.88 | 594 | 289.83 | 338.89 | 381.78 | 38.71 | 326.19 | 5.39 | 335.89 | 141.18 PHASE |
| 202 | 102.82 | 107.88 | 594 | 5.99 | 2.17 | 5.36 | 5.86 | 5.31 | 13.56 | 4.94 | 1.53 AMP |
| 203 | 104.82 | 109.88 | 594 | 312.31 | 352.48 | 287.17 | 28.24 | 348.91 | 9.34 | 311.73 | 166.62 PHASE |
| 204 | 106.82 | 111.88 | 594 | 7.88 | 1.98 | 7.44 | 5.11 | 3.62 | 18.91 | 3.87 | 1.87 AMP |
| 205 | 108.82 | 113.88 | 594 | 338.42 | 16.88 | 265.98 | 11.28 | 336.89 | 28.56 | 352.88 | 168.98 PHASE |
| 206 | 110.82 | 115.88 | 594 | 8.74 | .66 | 9.71 | 4.18 | 1.68 | 8.88 | 1.75 | 2.89 AMP |
| 207 | 112.82 | 117.88 | 594 | 344.71 | 17.28 | 256.91 | 359.98 | 388.54 | 36.46 | 98.68 | 268.84 PHASE |

TABLE VII.- Continued

(b) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|----------------|----------------|---------------|----------------|----------------|----------------|----------------|---------------|--------------|
| | RUN NO | B | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 156 | .19 | 3.92 | 595 | 2.57 333.22 | .56 123.98 | .89 121.68 | .43 273.33 | .45 383.83 | .89 79.18 | .87 22.69 | .89 285.27 | AMP PHASE |
| 157 | -1.82 | 3.88 | 594 | 2.87 339.48 | .47 134.44 | .15 184.11 | .36 268.86 | .38 284.37 | .85 73.29 | .88 331.88 | .86 92.51 | AMP PHASE |
| 158 | -2.33 | 4.68 | 595 | 3.37 348.12 | .46 155.44 | .24 118.41 | .43 256.84 | .47 288.65 | .85 346.91 | .86 346.35 | .86 86.43 | AMP PHASE |
| 159 | -3.81 | 5.36 | 595 | 3.88 355.35 | .56 164.77 | .33 145.61 | .56 244.53 | .68 286.37 | .11 8.31 | .83 4.38 | .84 79.73 | AMP PHASE |
| 160 | -5.12 | 5.73 | 594 | 4.35 3.88 | .67 172.23 | .48 169.28 | .68 253.93 | .68 318.12 | .18 47.56 | .83 232.84 | .85 125.54 | AMP PHASE |
| 161 | -6.47 | 6.69 | 594 | 4.94 5.77 | .98 169.42 | .66 178.88 | .75 248.36 | .61 315.28 | .26 47.82 | .87 194.52 | .82 156.33 | AMP PHASE |
| 162 | -7.36 | 7.28 | 594 | 5.43 5.46 | 1.83 163.35 | .82 164.86 | .78 232.41 | .68 386.89 | .34 27.69 | .11 168.13 | .83 181.18 | AMP PHASE |
| 163 | -7.94 | 7.48 | 594 | 5.72 5.96 | 1.13 168.22 | .87 161.87 | .88 227.99 | .58 388.19 | .37 28.66 | .89 165.78 | .83 185.38 | AMP PHASE |
| 164 | .71 | 4.33 | 596 | 2.91 325.16 | .98 118.11 | .85 53.88 | .51 282.89 | .51 318.23 | .12 87.23 | .18 23.12 | .28 212.76 | AMP PHASE |
| 165 | -1.58 | 4.57 | 595 | 3.17 338.86 | .88 133.44 | .18 75.63 | .41 299.25 | .48 334.45 | .13 114.81 | .17 35.49 | .12 249.55 | AMP PHASE |
| 166 | -1.94 | 4.98 | 595 | 3.61 347.88 | .74 144.81 | .12 182.22 | .41 288.57 | .48 321.85 | .85 126.83 | .25 27.84 | .88 264.68 | AMP PHASE |
| 167 | -3.43 | 5.84 | 595 | 4.15 353.15 | .74 149.81 | .19 142.63 | .58 264.35 | .45 382.36 | .18 64.94 | .18 14.84 | .87 265.37 | AMP PHASE |
| 168 | -4.58 | 6.28 | 594 | 4.54 357.48 | .81 155.76 | .28 165.97 | .59 255.28 | .51 388.72 | .17 61.67 | .16 28.86 | .89 278.41 | AMP PHASE |
| 169 | -6.87 | 7.13 | 595 | 5.87 3.84 | .91 164.11 | .45 177.84 | .67 253.65 | .58 323.23 | .25 69.18 | .13 7.86 | .85 318.44 | AMP PHASE |
| 170 | -7.42 | 7.34 | 595 | 5.81 5.87 | 1.86 164.81 | .61 164.81 | .71 248.93 | .58 318.81 | .29 37.61 | .23 341.89 | .85 6.82 | AMP PHASE |
| 171 | -8.15 | 7.53 | 595 | 6.27 4.41 | .99 172.21 | .48 167.36 | .71 245.12 | .48 318.12 | .51 358.46 | .28 329.93 | .42 329.42 | AMP PHASE |
| 172 | -9.82 | 8.86 | 595 | 7.81 .81 | .62 185.54 | .27 91.62 | .54 253.88 | .44 328.81 | .38 326.48 | .53 316.81 | .28 327.75 | AMP PHASE |
| 173 | 1.84 | 4.88 | 595 | 3.15 326.13 | 1.22 122.93 | .23 21.15 | .62 312.27 | .66 334.59 | .82 59.26 | .22 68.68 | .28 298.75 | AMP PHASE |
| 174 | -1.33 | 4.88 | 595 | 3.48 331.99 | 1.12 128.99 | .26 28.84 | .54 382.37 | .59 315.98 | .83 56.98 | .15 26.34 | .24 299.93 | AMP PHASE |
| 175 | -1.53 | 5.31 | 594 | 3.69 339.32 | 1.82 125.21 | .23 17.32 | .49 388.76 | .55 314.87 | .82 297.83 | .18 6.89 | .22 311.59 | AMP PHASE |
| 176 | -3.83 | 5.67 | 595 | 4.89 348.96 | .93 135.34 | .18 15.18 | .54 298.48 | .68 318.24 | .18 332.45 | .28 26.85 | .26 326.95 | AMP PHASE |
| 177 | -4.38 | 5.97 | 594 | 4.52 354.99 | .92 145.29 | .83 278.96 | .59 277.48 | .64 314.12 | .16 345.81 | .26 11.77 | .38 335.58 | AMP PHASE |
| 179 | -5.67 | 6.22 | 596 | 5.83 358.84 | .92 153.86 | .14 239.94 | .68 259.87 | .62 292.53 | .28 313.17 | .35 358.84 | .41 338.68 | AMP PHASE |
| 180 | -7.86 | 7.62 | 595 | 5.78 358.83 | .88 169.84 | .23 244.91 | .92 258.25 | .89 264.88 | .68 291.39 | .59 339.97 | .58 332.23 | AMP PHASE |
| 181 | -8.49 | 9.17 | 595 | 6.79 356.84 | .72 191.12 | .33 388.21 | 1.19 258.62 | 1.29 266.42 | 1.18 388.58 | .88 346.72 | .61 343.38 | AMP PHASE |
| 182 | -9.58 | 11.12 | 594 | 7.98 354.55 | .46 283.72 | .27 5.89 | 1.55 259.86 | 1.82 267.91 | 1.88 296.68 | 1.14 344.82 | .54 9.14 | AMP PHASE |

TABLE VII.- Continued

(b) Concluded

| PITCH LINK | | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | S | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 156 | -1.54 | 5.45 | 595 | 4.83 | .19 | .76 | .76 | 1.25 | .89 | .43 | .22 | AMP |
| 157 | -.38 | 6.32 | 594 | 176.33 | 54.42 | 149.15 | 66.63 | 131.55 | 195.52 | 47.94 | 224.13 | PHASE |
| 158 | .98 | 7.63 | 595 | 4.46 | .25 | .73 | .82 | 1.29 | .14 | .32 | .13 | AMP |
| 159 | 2.48 | 8.97 | 595 | 182.36 | 76.99 | 149.82 | 49.89 | 119.43 | 117.53 | 17.99 | 91.34 | PHASE |
| 160 | 3.72 | 10.37 | 594 | 5.19 | .39 | .61 | .87 | 1.47 | .28 | .47 | .89 | AMP |
| 161 | 5.05 | 12.14 | 594 | 188.67 | 113.32 | 147.71 | 55.68 | 119.53 | 126.78 | 39.22 | 182.41 | PHASE |
| 162 | 6.12 | 14.36 | 594 | 6.33 | .43 | .46 | 1.28 | 1.68 | .18 | .48 | .89 | AMP |
| 163 | 6.85 | 15.67 | 594 | 192.75 | 129.14 | 118.42 | 62.48 | 126.39 | 64.77 | 27.44 | 73.33 | PHASE |
| 164 | -2.22 | 6.12 | 596 | 7.51 | .51 | .68 | 1.38 | 1.69 | .12 | .32 | .28 | AMP |
| 165 | -.98 | 6.76 | 595 | 198.95 | 131.71 | 73.88 | 77.89 | 145.69 | 64.47 | 31.98 | 93.16 | PHASE |
| 166 | .41 | 8.86 | 595 | 8.94 | .33 | 1.89 | 1.59 | 1.85 | .19 | .38 | .28 | AMP |
| 167 | 1.84 | 9.96 | 596 | 199.83 | 122.87 | 38.56 | 77.95 | 158.83 | 315.82 | 13.58 | 54.78 | PHASE |
| 168 | 3.84 | 11.79 | 594 | 18.36 | .12 | 1.85 | 1.78 | 1.92 | .35 | .48 | .49 | AMP |
| 169 | 4.78 | 13.41 | 595 | 198.91 | 185.37 | 38.53 | 72.82 | 148.23 | 278.71 | 341.44 | 54.36 | PHASE |
| 170 | 5.84 | 15.19 | 594 | 11.34 | .36 | 2.35 | 1.92 | 2.11 | .39 | .31 | .44 | AMP |
| 171 | 6.84 | 17.78 | 595 | 198.85 | 247.42 | 26.81 | 72.84 | 139.96 | 264.76 | 337.21 | 49.42 | PHASE |
| 172 | 7.84 | 19.56 | 594 | 4.45 | .23 | .79 | .83 | 1.84 | .28 | .66 | .44 | AMP |
| 173 | 8.84 | 21.34 | 595 | 171.57 | 314.29 | 138.62 | 75.68 | 142.64 | 224.21 | 37.88 | 222.64 | PHASE |
| 174 | 9.84 | 23.12 | 594 | 5.12 | .86 | .78 | .83 | 1.81 | .85 | .59 | .18 | AMP |
| 175 | 10.84 | 24.90 | 595 | 188.14 | 347.63 | 161.18 | 76.97 | 165.65 | 261.84 | 72.81 | 267.83 | PHASE |
| 176 | 11.84 | 26.68 | 594 | 5.78 | .82 | .78 | .98 | .97 | .15 | .74 | .86 | AMP |
| 177 | 12.84 | 28.46 | 595 | 187.72 | 126.21 | 158.26 | 76.93 | 164.41 | 86.71 | 68.82 | 38.31 | PHASE |
| 178 | 13.84 | 30.24 | 594 | 6.73 | .14 | .58 | 1.17 | 1.17 | .16 | .98 | .14 | AMP |
| 179 | 14.84 | 32.02 | 595 | 189.76 | 188.87 | 117.27 | 63.37 | 148.78 | 38.71 | 49.19 | 296.99 | PHASE |
| 180 | 15.84 | 33.80 | 594 | 7.84 | .13 | .66 | 1.34 | 1.29 | .21 | .78 | .17 | AMP |
| 181 | 16.84 | 35.58 | 595 | 192.57 | 228.53 | 72.69 | 69.44 | 157.33 | 357.17 | 47.98 | 338.82 | PHASE |
| 182 | 17.84 | 37.36 | 594 | 9.65 | .58 | 1.35 | 1.43 | 1.53 | .25 | .58 | .27 | AMP |
| 183 | 18.84 | 39.14 | 595 | 197.26 | 272.72 | 47.75 | 84.49 | 173.18 | 37.96 | 53.35 | 16.83 | PHASE |
| 184 | 19.84 | 40.92 | 594 | 12.28 | 1.39 | 2.52 | 1.81 | 1.83 | .26 | .48 | .42 | AMP |
| 185 | 20.84 | 42.70 | 595 | 197.87 | 274.42 | 38.84 | 83.34 | 161.99 | 128.23 | 28.86 | 13.73 | PHASE |
| 186 | 21.84 | 44.48 | 594 | 14.25 | 1.68 | 3.35 | 1.97 | 1.89 | .78 | .73 | .54 | AMP |
| 187 | 22.84 | 46.26 | 595 | 196.34 | 278.78 | 43.14 | 85.16 | 147.59 | 188.87 | 46.78 | 28.85 | PHASE |
| 188 | 23.84 | 48.04 | 594 | 16.66 | 2.29 | 3.78 | 2.15 | 1.89 | .94 | .91 | .78 | AMP |
| 189 | 24.84 | 49.82 | 595 | 194.64 | 268.32 | 45.98 | 92.53 | 137.89 | 188.85 | 53.49 | 8.27 | PHASE |
| 190 | 25.84 | 51.60 | 594 | 5.85 | .76 | .66 | .94 | 1.19 | .12 | .74 | .26 | AMP |
| 191 | 26.84 | 53.38 | 595 | 172.59 | 317.86 | 188.89 | 115.71 | 157.72 | 138.96 | 69.45 | 321.18 | PHASE |
| 192 | 27.84 | 55.16 | 594 | 5.45 | .65 | .65 | .83 | 1.37 | .84 | .74 | .41 | AMP |
| 193 | 28.84 | 56.94 | 595 | 176.52 | 388.23 | 189.17 | 98.47 | 137.88 | 59.62 | 68.85 | 337.52 | PHASE |
| 194 | 29.84 | 58.72 | 594 | 6.82 | .66 | .51 | .97 | 1.29 | .22 | .76 | .52 | AMP |
| 195 | 30.84 | 60.50 | 595 | 181.88 | 286.88 | 187.12 | 83.81 | 144.75 | 48.56 | 43.87 | 3.84 | PHASE |
| 196 | 31.84 | 62.28 | 594 | 7.28 | .82 | .25 | 1.13 | 1.48 | .25 | .88 | .59 | AMP |
| 197 | 32.84 | 64.06 | 595 | 186.18 | 278.45 | 173.74 | 89.39 | 144.55 | 65.39 | 63.58 | 7.17 | PHASE |
| 198 | 33.84 | 65.84 | 594 | 8.65 | 1.12 | .43 | 1.52 | 1.58 | .28 | .63 | .79 | AMP |
| 199 | 34.84 | 67.62 | 595 | 198.28 | 288.29 | 76.97 | 92.42 | 154.89 | 115.28 | 74.64 | 5.59 | PHASE |
| 200 | 35.84 | 69.40 | 594 | 18.74 | 1.59 | 1.14 | 1.65 | 1.82 | .55 | .55 | 1.32 | AMP |
| 201 | 36.84 | 71.18 | 595 | 191.36 | 274.65 | 56.36 | 83.34 | 131.34 | 126.62 | 69.31 | 349.93 | PHASE |
| 202 | 37.84 | 72.96 | 594 | 13.93 | 2.11 | 2.11 | 2.14 | 2.76 | .95 | .88 | 1.67 | AMP |
| 203 | 38.84 | 74.74 | 595 | 198.89 | 273.21 | 58.61 | 83.66 | 118.94 | 121.62 | 73.52 | 348.52 | PHASE |
| 204 | 39.84 | 76.52 | 594 | 17.51 | 2.28 | 3.23 | 2.48 | 3.45 | 1.44 | 1.45 | 1.47 | AMP |
| 205 | 40.84 | 78.30 | 595 | 198.89 | 263.64 | 71.48 | 92.83 | 183.88 | 114.79 | 98.62 | 1.99 | PHASE |
| 206 | 41.84 | 80.08 | 594 | 28.61 | 2.89 | 4.83 | 2.39 | 5.23 | 3.78 | 2.68 | 1.21 | AMP |
| 207 | 42.84 | 81.86 | 595 | 198.26 | 252.18 | 84.35 | 89.43 | 87.98 | 117.48 | 128.19 | 95.28 | PHASE |

TABLE VII.- Continued

(c) $\mu = 0.30$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 213 | -1.3 | 5.2 | 4.1 | .04287 | -.00294 | .00256 |
| 214 | -2.3 | 6.6 | 6.0 | .05092 | -.00446 | .00321 |
| 215 | -2.4 | 7.6 | 8.0 | .06195 | -.00568 | .00385 |
| 216 | -2.7 | 8.0 | 9.9 | .07463 | -.00654 | .00449 |
| 217 | -3.3 | 9.2 | 11.9 | .08551 | -.00838 | .00551 |
| 218 | -4.2 | 10.5 | 14.1 | .09520 | -.01058 | .00692 |
| 219 | -4.4 | 10.6 | 14.8 | .09788 | -.01096 | .00739 |
| 220 | -4.8 | 11.2 | 15.8 | .10209 | -.01195 | .00825 |
| 221 | -.8 | 5.3 | 3.9 | .02050 | -.00307 | .00234 |
| 222 | -1.0 | 5.1 | 5.9 | .03618 | -.00540 | .00324 |
| 223 | -1.7 | 6.2 | 7.8 | .04642 | -.00734 | .00401 |
| 224 | -2.1 | 6.8 | 9.9 | .05940 | -.00970 | .00491 |
| 225 | -3.0 | 8.1 | 11.8 | .06727 | -.01206 | .00591 |
| 226 | -3.1 | 9.6 | 13.9 | .07837 | -.01476 | .00723 |
| 227 | -3.1 | 9.8 | 14.9 | .08303 | -.01548 | .00774 |
| 228 | -3.3 | 9.9 | 15.9 | .08991 | -.01593 | .00829 |
| 236 | -2.2 | 4.2 | 0.0 | .03409 | .00050 | .00134 |
| 237 | -2.4 | 5.1 | 1.8 | .04574 | .00035 | .00154 |
| 238 | -2.2 | 6.1 | 3.8 | .05815 | .00017 | .00188 |
| 239 | -2.4 | 6.7 | 5.8 | .07053 | .00021 | .00226 |
| 240 | -2.7 | 8.2 | 7.9 | .08046 | -.00064 | .00303 |
| 241 | -3.3 | 9.0 | 9.8 | .09151 | -.00101 | .00376 |
| 242 | -3.8 | 10.1 | 11.8 | .10096 | -.00182 | .00492 |
| 243 | -4.5 | 11.1 | 13.8 | .10760 | -.00233 | .00647 |
| 244 | -.6 | 3.4 | -3.1 | .03404 | .00474 | .00045 |
| 245 | -1.5 | 4.6 | -.1 | .05352 | .00627 | .00029 |
| 246 | -2.1 | 5.5 | 1.8 | .06479 | .00701 | .00039 |
| 247 | -2.6 | 6.4 | 3.8 | .07612 | .00763 | .00065 |
| 248 | -2.8 | 8.2 | 5.8 | .08404 | .00683 | .00132 |
| 249 | -3.2 | 8.8 | 7.8 | .09565 | .00797 | .00182 |
| 250 | -3.9 | 10.0 | 9.9 | .10354 | .00738 | .00305 |

TABLE VII.- Continued

(c) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|--------|---------|-----|---------|--------|--------|--------|--------|--------|--------|--------|
| PT NO | RUN NO | | RPM | 1/2 P-P | | | | | | | |
| | MEAN | 1/2 P-P | | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 48.79 | 13.67 | 623 | 4.57 | 3.65 | 2.63 | .87 | 4.45 | 1.28 | 1.94 | 1.18 |
| | | | | 145.55 | 328.88 | 2.58 | 322.92 | 65.21 | 312.21 | 238.21 | 28.42 |
| 214 | 58.86 | 14.18 | 622 | 4.98 | 3.88 | 3.16 | .92 | 4.14 | 1.21 | 1.87 | .74 |
| | | | | 136.22 | 319.37 | 357.24 | 387.84 | 68.83 | 295.54 | 218.25 | 14.68 |
| 215 | 51.33 | 14.12 | 622 | 5.41 | 4.11 | 3.36 | 1.85 | 4.15 | .98 | 2.12 | .94 |
| | | | | 134.88 | 324.51 | 3.23 | 296.91 | 68.36 | 295.34 | 217.76 | 358.75 |
| 216 | 52.53 | 14.85 | 623 | 5.48 | 4.29 | 3.33 | 1.18 | 4.59 | .88 | 2.22 | .75 |
| | | | | 123.95 | 319.86 | 357.94 | 275.36 | 45.27 | 263.72 | 193.23 | 353.78 |
| 217 | 53.73 | 14.23 | 622 | 5.86 | 4.23 | 3.35 | 1.87 | 5.88 | .74 | 2.23 | .76 |
| | | | | 115.26 | 326.44 | 1.89 | 272.91 | 68.44 | 245.39 | 199.61 | 4.75 |
| 218 | 54.92 | 14.42 | 622 | 6.39 | 4.38 | 3.11 | 1.64 | 4.97 | 1.84 | 2.23 | .38 |
| | | | | 182.48 | 336.58 | .14 | 254.15 | 77.91 | 217.13 | 197.24 | 23.89 |
| 219 | 55.38 | 14.64 | 624 | 6.66 | 4.56 | 2.78 | 2.88 | 5.87 | 1.13 | 2.55 | .57 |
| | | | | 92.15 | 332.27 | 344.74 | 238.82 | 71.66 | 198.28 | 178.75 | 58.86 |
| 228 | 55.78 | 16.48 | 621 | 7.41 | 4.82 | 2.74 | 2.47 | 5.81 | 1.33 | 2.82 | .59 |
| | | | | 82.55 | 335.83 | 327.62 | 226.99 | 81.32 | 181.38 | 164.65 | 77.92 |
| 221 | 47.23 | 11.42 | 622 | 4.81 | 2.43 | 2.33 | .77 | 3.93 | 1.87 | .94 | .75 |
| | | | | 141.19 | 313.52 | 338.86 | 17.35 | 38.98 | 298.16 | 214.53 | 345.45 |
| 222 | 48.78 | 11.37 | 621 | 3.99 | 3.82 | 3.89 | .89 | 3.95 | 1.81 | 1.82 | .78 |
| | | | | 146.28 | 323.81 | 357.91 | 341.78 | 42.39 | 318.84 | 233.73 | 355.34 |
| 223 | 58.15 | 12.66 | 622 | 4.31 | 3.35 | 3.38 | 1.85 | 4.22 | .98 | 1.84 | .84 |
| | | | | 137.86 | 325.63 | 357.86 | 338.84 | 34.85 | 383.26 | 223.16 | 341.48 |
| 224 | 51.74 | 13.13 | 622 | 4.78 | 3.75 | 3.64 | 1.35 | 4.78 | .71 | 1.88 | .77 |
| | | | | 138.72 | 329.63 | .44 | 319.88 | 48.77 | 295.35 | 218.36 | 339.64 |
| 225 | 53.84 | 14.23 | 623 | 5.38 | 3.85 | 3.75 | 1.68 | 5.84 | .58 | .98 | .76 |
| | | | | 115.49 | 324.18 | 343.29 | 299.98 | 16.71 | 258.18 | 166.38 | 293.38 |
| 226 | 54.38 | 14.38 | 621 | 6.16 | 3.96 | 3.75 | 1.98 | 4.91 | .54 | .98 | .73 |
| | | | | 112.37 | 348.21 | 353.14 | 312.32 | 43.27 | 227.88 | 179.61 | 381.85 |
| 227 | 55.15 | 14.83 | 621 | 6.36 | 4.87 | 3.53 | 2.15 | 4.83 | .58 | 1.86 | .56 |
| | | | | 184.72 | 338.78 | 346.32 | 296.41 | 48.93 | 286.12 | 161.49 | 287.63 |
| 228 | 55.74 | 14.44 | 615 | 6.96 | 4.27 | 3.35 | 2.45 | 4.38 | .81 | 1.24 | .84 |
| | | | | 93.98 | 332.53 | 334.84 | 275.97 | 37.38 | 171.77 | 148.73 | 286.28 |
| 236 | 47.71 | 13.43 | 622 | 4.97 | 3.58 | 1.47 | .71 | 5.49 | 1.88 | 2.89 | .69 |
| | | | | 186.14 | 387.28 | 355.17 | 12.89 | 46.78 | 314.64 | 234.62 | 63.83 |
| 237 | 48.92 | 13.81 | 622 | 5.32 | 3.92 | 2.11 | .69 | 5.83 | 1.77 | 2.14 | .34 |
| | | | | 138.47 | 313.81 | 7.84 | 26.43 | 55.35 | 338.34 | 249.51 | 148.47 |
| 238 | 58.21 | 13.82 | 623 | 5.72 | 4.24 | 2.43 | .45 | 5.63 | 1.37 | 2.82 | .52 |
| | | | | 148.66 | 319.11 | 28.52 | 45.91 | 62.95 | 335.88 | 252.68 | 289.13 |
| 239 | 51.32 | 12.99 | 623 | 5.79 | 4.59 | 2.78 | .45 | 5.34 | 1.17 | 2.34 | .85 |
| | | | | 134.17 | 314.87 | 17.74 | 28.67 | 41.79 | 388.95 | 236.88 | 189.86 |
| 248 | 52.42 | 13.58 | 621 | 6.23 | 4.83 | 3.16 | .42 | 4.77 | .94 | 2.37 | .75 |
| | | | | 138.87 | 328.61 | 21.88 | 66.54 | 68.67 | 285.67 | 248.55 | 185.88 |
| 241 | 53.38 | 14.34 | 622 | 6.27 | 5.15 | 3.17 | .28 | 3.42 | 1.16 | 2.64 | 1.65 |
| | | | | 128.78 | 323.85 | 23.37 | 58.92 | 53.19 | 247.82 | 235.11 | 161.47 |
| 242 | 54.11 | 15.78 | 622 | 6.58 | 5.77 | 2.48 | .41 | 1.62 | 1.78 | 2.74 | 1.88 |
| | | | | 189.48 | 333.77 | 17.22 | 277.56 | 58.84 | 243.56 | 242.56 | 177.94 |
| 243 | 54.42 | 19.67 | 622 | 7.55 | 6.54 | 2.28 | 1.61 | 5.55 | 2.88 | 3.15 | 2.14 |
| | | | | 81.73 | 321.58 | 282.88 | 245.56 | 269.85 | 194.61 | 193.78 | 149.63 |
| 244 | 46.81 | 14.34 | 621 | 6.48 | 4.24 | .88 | 1.84 | 5.93 | 2.27 | 2.13 | .81 |
| | | | | 143.77 | 313.11 | 91.45 | 76.84 | 51.32 | 327.82 | 266.46 | 156.83 |
| 245 | 47.87 | 15.27 | 622 | 6.98 | 4.98 | 1.75 | 1.36 | 5.52 | 2.12 | 2.83 | .68 |
| | | | | 144.32 | 318.28 | 84.86 | 85.82 | 61.67 | 347.79 | 281.16 | 283.49 |
| 246 | 48.88 | 16.86 | 622 | 7.19 | 5.23 | 2.25 | 1.52 | 5.62 | 1.97 | 2.86 | .48 |
| | | | | 138.19 | 318.32 | 67.12 | 69.99 | 38.71 | 328.78 | 249.43 | 246.52 |
| 247 | 49.92 | 15.16 | 622 | 7.38 | 5.59 | 2.78 | 1.49 | 5.14 | 1.94 | 2.23 | .68 |
| | | | | 137.89 | 315.42 | 64.48 | 76.94 | 39.27 | 318.22 | 262.45 | 233.94 |
| 248 | 58.85 | 15.26 | 622 | 7.78 | 5.86 | 2.93 | 1.86 | 4.34 | 1.58 | 2.19 | .71 |
| | | | | 131.52 | 317.25 | 58.18 | 63.65 | 35.81 | 386.71 | 258.68 | 228.38 |
| 249 | 51.56 | 17.13 | 622 | 7.68 | 6.25 | 2.48 | .51 | 3.48 | 1.34 | 2.38 | 1.23 |
| | | | | 124.71 | 322.78 | 52.66 | 55.98 | 23.56 | 291.77 | 244.23 | 175.88 |
| 258 | 52.15 | 18.85 | 622 | 7.68 | 7.16 | .81 | 1.87 | 2.86 | 1.37 | 2.74 | 1.55 |
| | | | | 118.66 | 325.53 | 345.25 | 252.82 | 345.51 | 259.21 | 233.25 | 169.38 |

TABLE VII.- Continued

(c) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | | | |
|-----------------------------|--------|--------|------|---------|--------|--------|--------|--------|--------|--------|--------|-------|----|
| PT NO | RUN NO | 1Ø | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 52.67 | 33.78 | 623 | 19.89 | 6.88 | 5.62 | 3.67 | 6.61 | 5.38 | 1.53 | .64 | AMP | |
| | | | | 387.37 | 123.28 | 218.95 | 31.59 | 315.81 | 295.42 | 346.82 | 88.81 | PHASE | |
| 214 | 52.85 | 38.88 | 622 | 26.82 | 8.37 | 9.31 | 5.87 | 7.43 | 5.49 | 1.75 | .67 | AMP | |
| | | | | 313.99 | 125.97 | 287.47 | 11.98 | 389.87 | 294.79 | 357.59 | 78.49 | PHASE | |
| 215 | 52.51 | 58.22 | 622 | 37.34 | 18.19 | 18.85 | 7.29 | 7.86 | 6.29 | 1.68 | 1.15 | AMP | |
| | | | | 338.28 | 129.32 | 215.85 | 17.19 | 319.95 | 274.87 | 312.83 | 69.55 | PHASE | |
| 216 | 51.48 | 82.44 | 623 | 49.68 | 12.84 | 28.84 | 8.79 | 8.83 | 11.48 | 3.31 | 1.15 | AMP | |
| | | | | 339.19 | 125.99 | 215.97 | 14.85 | 383.43 | 269.93 | 286.39 | 43.49 | PHASE | |
| 217 | 58.79 | 98.39 | 622 | 62.85 | 12.64 | 25.11 | 9.26 | 9.67 | 13.91 | 3.73 | 1.12 | AMP | |
| | | | | 344.46 | 129.73 | 227.35 | 24.88 | 388.65 | 383.78 | 298.87 | 54.99 | PHASE | |
| 218 | 58.78 | 115.73 | 622 | 78.68 | 13.29 | 29.63 | 9.33 | 9.41 | 13.81 | 3.77 | .95 | AMP | |
| | | | | 348.25 | 137.25 | 233.77 | 17.18 | 311.63 | 321.99 | 311.69 | 57.61 | PHASE | |
| 219 | 51.29 | 122.69 | 624 | 86.23 | 12.75 | 38.62 | 8.78 | 9.82 | 18.89 | 3.89 | .94 | AMP | |
| | | | | 348.71 | 134.24 | 227.16 | 353.31 | 286.88 | 317.27 | 382.55 | 31.63 | PHASE | |
| 228 | 51.45 | 127.59 | 621 | 96.48 | 12.48 | 33.32 | 8.85 | 9.83 | 8.32 | 3.61 | .79 | AMP | |
| | | | | 351.76 | 138.25 | 227.89 | 329.61 | 259.53 | 311.86 | 329.38 | 56.86 | PHASE | |
| 221 | 51.64 | 28.83 | 622 | 7.84 | 1.61 | 4.19 | 4.67 | .79 | 5.48 | .73 | .56 | AMP | |
| | | | | 286.18 | 127.95 | 221.91 | 39.72 | 381.24 | 247.72 | 346.85 | 48.58 | PHASE | |
| 222 | 53.85 | 31.18 | 621 | 16.38 | 4.55 | 7.38 | 5.64 | 5.68 | 7.28 | .64 | .45 | AMP | |
| | | | | 328.45 | 137.51 | 283.38 | 32.85 | 318.18 | 384.12 | 353.12 | 77.53 | PHASE | |
| 223 | 54.21 | 49.28 | 622 | 24.94 | 5.48 | 12.85 | 7.39 | 5.45 | 8.43 | .79 | .66 | AMP | |
| | | | | 348.16 | 137.78 | 218.41 | 23.19 | 322.88 | 287.65 | 383.72 | 63.55 | PHASE | |
| 224 | 54.54 | 71.86 | 622 | 37.51 | 5.78 | 18.84 | 9.33 | 4.98 | 18.48 | 2.86 | .76 | AMP | |
| | | | | 352.85 | 142.88 | 223.88 | 23.59 | 387.87 | 298.68 | 388.54 | 66.65 | PHASE | |
| 225 | 55.52 | 85.48 | 623 | 47.81 | 7.27 | 22.68 | 11.24 | 5.16 | 12.61 | 2.48 | 1.13 | AMP | |
| | | | | 346.22 | 128.64 | 218.73 | 358.86 | 263.98 | 268.51 | 268.98 | 7.11 | PHASE | |
| 226 | 55.51 | 188.55 | 621 | 66.96 | 9.31 | 28.93 | 13.13 | 6.26 | 12.75 | 2.98 | 1.27 | AMP | |
| | | | | 352.88 | 143.24 | 228.78 | 9.32 | 263.74 | 384.26 | 314.14 | 49.88 | PHASE | |
| 227 | 54.69 | 118.95 | 621 | 78.13 | 9.41 | 31.95 | 13.34 | 7.37 | 11.87 | 3.62 | 1.58 | AMP | |
| | | | | 355.63 | 148.69 | 229.46 | 352.34 | 237.96 | 296.83 | 318.23 | 41.88 | PHASE | |
| 228 | 53.19 | 126.31 | 615 | 87.11 | 9.96 | 33.91 | 15.55 | 9.93 | 14.68 | 3.88 | 1.55 | AMP | |
| | | | | 357.17 | 148.84 | 225.78 | 319.38 | 224.87 | 383.26 | 389.88 | 28.52 | PHASE | |
| 236 | 55.61 | 29.23 | 622 | 14.62 | 4.21 | 5.29 | 3.69 | 5.59 | 4.13 | 1.17 | .49 | AMP | |
| | | | | 261.87 | 181.11 | 248.21 | 42.84 | 8.97 | 286.32 | 342.38 | 68.92 | PHASE | |
| 237 | 54.61 | 43.58 | 622 | 21.35 | 5.88 | 7.25 | 4.58 | 3.88 | 13.88 | 1.88 | .72 | AMP | |
| | | | | 285.83 | 115.85 | 252.28 | 47.38 | 341.13 | 242.84 | 348.55 | 75.33 | PHASE | |
| 238 | 53.44 | 49.99 | 623 | 31.82 | 9.59 | 6.97 | 5.18 | 7.96 | 18.86 | 2.38 | .67 | AMP | |
| | | | | 387.24 | 128.59 | 235.79 | 38.42 | 315.66 | 283.88 | 4.49 | 71.76 | PHASE | |
| 239 | 51.44 | 57.83 | 623 | 41.34 | 11.92 | 11.48 | 6.51 | 8.12 | 14.27 | 2.92 | .89 | AMP | |
| | | | | 321.69 | 128.74 | 219.26 | 38.48 | 311.23 | 283.81 | 331.88 | 33.86 | PHASE | |
| 248 | 49.52 | 73.86 | 621 | 63.99 | 13.77 | 15.96 | 7.49 | 18.26 | 16.66 | 4.84 | 1.15 | AMP | |
| | | | | 332.83 | 138.88 | 233.28 | 48.14 | 327.71 | 324.81 | 332.31 | 38.88 | PHASE | |
| 241 | 47.58 | 91.77 | 622 | 65.12 | 14.98 | 19.77 | 8.47 | 11.53 | 18.73 | 5.73 | .88 | AMP | |
| | | | | 348.29 | 133.32 | 248.69 | 34.88 | 329.72 | 328.48 | 389.41 | 18.22 | PHASE | |
| 242 | 46.62 | 112.77 | 622 | 79.39 | 15.81 | 22.98 | 8.85 | 12.62 | 18.84 | 6.42 | 1.53 | AMP | |
| | | | | 351.88 | 142.21 | 252.75 | 33.18 | 349.32 | 356.46 | 325.56 | 36.42 | PHASE | |
| 243 | 47.36 | 142.31 | 622 | 98.68 | 17.22 | 26.75 | 18.33 | 9.17 | 18.88 | 6.69 | .76 | AMP | |
| | | | | 356.48 | 144.26 | 248.98 | 4.19 | 383.78 | 321.68 | 288.89 | 343.98 | PHASE | |
| 244 | 58.98 | 39.51 | 621 | 21.65 | 5.23 | 6.41 | 3.85 | 5.37 | 5.88 | 1.12 | .35 | AMP | |
| | | | | 264.43 | 86.96 | 251.85 | 49.45 | 359.34 | 268.29 | 358.75 | 177.19 | PHASE | |
| 245 | 48.89 | 56.11 | 622 | 28.96 | 7.42 | 8.25 | 5.53 | 3.37 | 14.53 | .99 | .62 | AMP | |
| | | | | 291.47 | 128.53 | 287.49 | 81.13 | 324.25 | 272.12 | 324.64 | 148.38 | PHASE | |
| 246 | 45.97 | 68.36 | 622 | 34.96 | 18.84 | 6.94 | 6.28 | 7.64 | 17.83 | 1.39 | .73 | AMP | |
| | | | | 388.71 | 121.38 | 268.56 | 66.97 | 283.68 | 274.84 | 326.88 | 133.39 | PHASE | |
| 247 | 43.72 | 64.44 | 622 | 42.34 | 13.42 | 8.31 | 6.43 | 18.63 | 17.74 | 1.44 | .47 | AMP | |
| | | | | 316.49 | 129.42 | 253.59 | 88.18 | 382.59 | 386.93 | 296.53 | 239.48 | PHASE | |
| 248 | 42.15 | 71.43 | 622 | 53.32 | 15.81 | 12.83 | 5.93 | 12.54 | 17.41 | 2.73 | .34 | AMP | |
| | | | | 322.67 | 138.31 | 244.58 | 61.58 | 387.18 | 318.62 | 272.65 | 319.68 | PHASE | |
| 249 | 39.39 | 88.41 | 622 | 64.19 | 17.46 | 16.33 | 6.17 | 12.64 | 16.82 | 7.28 | .38 | AMP | |
| | | | | 338.65 | 134.99 | 258.74 | 58.55 | 338.39 | 317.24 | 273.79 | 339.93 | PHASE | |
| 258 | 38.81 | 187.33 | 622 | 76.48 | 17.51 | 19.28 | 5.67 | 13.89 | 15.95 | 8.46 | .55 | AMP | |
| | | | | 346.59 | 137.82 | 253.76 | 22.27 | 321.38 | 383.64 | 268.32 | 56.88 | PHASE | |

TABLE VII.- Continued

(c) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 6.77 | 7.98 | 623 | 6.37 | .71 | .68 | 1.27 | 1.88 | .25 | .75 | .13 AMP |
| 214 | 6.83 | 8.33 | 622 | 345.44 | 88.25 | 342.81 | 252.75 | 323.82 | 63.91 | 268.53 | 94.37 PHASE |
| 215 | 3.18 | 9.68 | 622 | 6.85 | .59 | .62 | 1.28 | .99 | .89 | .75 | .11 AMP |
| 216 | .95 | 12.13 | 623 | 349.32 | 56.82 | 338.18 | 246.24 | 321.86 | 48.53 | 253.98 | 188.77 PHASE |
| 217 | -1.27 | 14.62 | 622 | 7.79 | .78 | .49 | 1.58 | .93 | .11 | 1.87 | .83 AMP |
| 218 | -3.83 | 18.18 | 622 | 355.43 | 51.38 | 316.85 | 246.59 | 311.88 | 92.74 | 246.52 | 18.31 PHASE |
| 219 | -5.84 | 28.61 | 624 | 9.28 | 1.88 | .77 | 1.78 | 1.89 | .86 | 1.89 | .15 AMP |
| 220 | -6.68 | 22.91 | 621 | 357.38 | 67.98 | 257.88 | 238.26 | 384.89 | 68.69 | 226.88 | 141.83 PHASE |
| 221 | 7.86 | 6.25 | 622 | 18.91 | 1.35 | 1.25 | 1.89 | 1.38 | .14 | .99 | .17 AMP |
| 222 | 5.94 | 6.87 | 621 | 3.54 | 91.12 | 244.28 | 258.37 | 319.53 | 8.61 | 248.41 | 156.61 PHASE |
| 223 | 4.28 | 7.42 | 622 | 13.23 | 2.84 | 2.82 | 2.14 | 1.88 | .64 | .88 | .22 AMP |
| 224 | 2.18 | 9.31 | 622 | 7.71 | 181.83 | 237.65 | 256.96 | 328.81 | 358.85 | 258.28 | 221.73 PHASE |
| 225 | .47 | 18.41 | 623 | 14.84 | 2.46 | 2.63 | 2.46 | 2.39 | 1.88 | .91 | .28 AMP |
| 226 | -1.61 | 12.32 | 621 | 5.29 | 94.56 | 231.68 | 251.23 | 315.85 | 325.97 | 232.45 | 217.87 PHASE |
| 227 | -2.79 | 14.88 | 621 | 6.32 | .43 | .59 | 1.24 | 1.13 | .89 | .64 | .84 AMP |
| 228 | -3.83 | 15.97 | 615 | 352.66 | 31.93 | 336.75 | 249.86 | 291.61 | 358.96 | 251.92 | 31.43 PHASE |
| 229 | 8.15 | 9.87 | 622 | 7.34 | .53 | .58 | 1.64 | 1.26 | .83 | .76 | .88 AMP |
| 230 | 5.99 | 9.82 | 623 | 358.87 | 34.31 | 328.33 | 248.76 | 293.86 | 251.24 | 249.63 | 218.85 PHASE |
| 231 | 3.63 | 11.74 | 623 | 8.19 | .57 | .88 | 1.74 | 1.44 | .89 | .75 | .89 AMP |
| 232 | 1.22 | 14.41 | 621 | 357.83 | 29.99 | 277.51 | 225.87 | 268.49 | 181.93 | 213.81 | 186.56 PHASE |
| 233 | -1.72 | 17.56 | 622 | 9.59 | .65 | .72 | 2.85 | 1.51 | .15 | .63 | .23 AMP |
| 234 | -4.98 | 21.65 | 622 | 5.13 | 67.75 | 237.47 | 246.79 | 382.91 | 145.28 | 239.31 | 233.89 PHASE |
| 235 | -9.51 | 27.27 | 622 | 18.68 | .95 | 1.88 | 2.15 | 1.52 | .29 | .62 | .28 AMP |
| 236 | 8.47 | 18.29 | 622 | 6.89 | 88.87 | 225.36 | 244.88 | 388.68 | 187.49 | 225.65 | 223.37 PHASE |
| 237 | 6.24 | 18.98 | 622 | 11.87 | 1.39 | 1.78 | 2.31 | 1.77 | .28 | .68 | .19 AMP |
| 238 | 3.68 | 12.97 | 622 | 4.78 | 85.64 | 211.16 | 236.95 | 385.38 | 51.13 | 212.49 | 237.97 PHASE |
| 239 | 1.18 | 15.87 | 622 | 6.17 | 1.37 | .77 | 1.36 | 1.41 | .88 | .73 | .27 AMP |
| 240 | -2.35 | 19.58 | 622 | 332.73 | 112.51 | 2.57 | 269.95 | 383.83 | 317.13 | 252.88 | 148.18 PHASE |
| 241 | -6.23 | 24.38 | 622 | 6.53 | 1.17 | .92 | 1.28 | 1.39 | .23 | .89 | .32 AMP |
| 242 | 11.59 | 9.78 | 621 | 341.82 | 187.93 | 12.73 | 278.95 | 385.22 | 334.88 | 259.79 | 184.87 PHASE |
| 243 | 8.47 | 18.29 | 622 | 7.31 | 1.19 | .83 | 1.25 | 1.44 | .17 | .93 | .47 AMP |
| 244 | 6.24 | 18.98 | 622 | 349.71 | 95.89 | 23.82 | 273.64 | 318.91 | 285.69 | 265.35 | 287.71 PHASE |
| 245 | 3.68 | 12.97 | 622 | 8.63 | 1.48 | .54 | 1.43 | 1.68 | .33 | 1.11 | .52 AMP |
| 246 | 1.18 | 15.87 | 622 | 351.76 | 83.15 | 356.33 | 264.58 | 282.81 | 259.16 | 254.81 | 187.14 PHASE |
| 247 | -2.35 | 19.58 | 622 | 18.29 | 1.91 | .37 | 1.86 | 1.92 | .42 | 1.85 | .58 AMP |
| 248 | -6.23 | 24.38 | 622 | 359.85 | 98.82 | 313.17 | 265.56 | 296.74 | 311.28 | 278.11 | 199.87 PHASE |
| 249 | 11.59 | 9.78 | 621 | 12.89 | 2.47 | 1.14 | 2.19 | 2.42 | .61 | 1.21 | .66 AMP |
| 250 | 8.47 | 18.29 | 622 | 3.89 | 98.65 | 268.18 | 263.31 | 286.75 | 324.83 | 271.64 | 187.68 PHASE |
| 251 | 6.24 | 18.98 | 622 | 16.21 | 2.66 | 2.34 | 2.76 | 3.18 | .97 | 1.49 | .52 AMP |
| 252 | -2.35 | 19.58 | 622 | 7.45 | 187.89 | 279.66 | 273.76 | 388.58 | 344.88 | 298.38 | 214.21 PHASE |
| 253 | -6.23 | 24.38 | 622 | 21.69 | 2.86 | 5.35 | 2.96 | 4.29 | 2.24 | 2.85 | .49 AMP |
| 254 | 11.59 | 9.78 | 621 | 1.43 | 118.76 | 275.38 | 267.61 | 272.23 | 288.89 | 265.28 | 272.75 PHASE |
| 255 | 8.47 | 18.29 | 622 | 6.67 | 1.69 | .41 | .94 | 1.49 | .43 | .76 | .59 AMP |
| 256 | 6.24 | 18.98 | 622 | 336.56 | 116.58 | 49.78 | 279.57 | 317.46 | 335.99 | 277.11 | 185.28 PHASE |
| 257 | 3.68 | 12.97 | 622 | 7.48 | 1.42 | .13 | .82 | 1.13 | .41 | .97 | .55 AMP |
| 258 | 1.18 | 15.87 | 622 | 349.39 | 121.15 | 56.76 | 382.94 | 317.43 | 358.84 | 277.82 | 218.41 PHASE |
| 259 | -2.35 | 19.58 | 622 | 8.47 | 1.58 | .85 | .73 | 1.31 | .39 | 1.85 | .45 AMP |
| 260 | -6.23 | 24.38 | 622 | 349.98 | 186.15 | 285.54 | 281.41 | 285.18 | 314.53 | 252.32 | 188.26 PHASE |
| 261 | 11.59 | 9.78 | 621 | 18.87 | 1.97 | .24 | .74 | 1.72 | .55 | 1.84 | .58 AMP |
| 262 | 8.47 | 18.29 | 622 | 356.12 | 184.12 | 192.91 | 267.33 | 288.36 | 388.54 | 271.89 | 281.38 PHASE |
| 263 | 6.24 | 18.98 | 622 | 11.68 | 2.23 | .39 | 1.13 | 2.87 | .71 | 1.18 | .62 AMP |
| 264 | 1.18 | 15.87 | 622 | 357.78 | 188.41 | 216.21 | 256.58 | 282.31 | 318.25 | 263.36 | 197.93 PHASE |
| 265 | -2.35 | 19.58 | 622 | 15.87 | 2.88 | .95 | 1.55 | 2.69 | .68 | 1.39 | .76 AMP |
| 266 | -6.23 | 24.38 | 622 | 1.68 | 182.48 | 255.43 | 267.85 | 293.38 | 337.91 | 269.71 | 177.68 PHASE |
| 267 | 11.59 | 9.78 | 621 | 18.99 | 2.36 | 2.48 | 1.88 | 2.82 | .49 | 1.64 | 1.11 AMP |
| 268 | 8.47 | 18.29 | 622 | 1.43 | 97.51 | 288.88 | 286.51 | 384.92 | 4.83 | 268.35 | 154.76 PHASE |

TABLE VII.- Continued

(c) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 34.78 | 15.85 | 623 | 8.58 | 4.61 | 3.76 | .44 | 2.51 | .38 | .26 | .38 AMP |
| 214 | 35.96 | 16.82 | 622 | 138.44 | 318.71 | 3.93 | 321.38 | 67.87 | 254.82 | 176.31 | 198.28 PHASE |
| 215 | 37.84 | 16.58 | 622 | 9.14 | 4.82 | 4.38 | .54 | 2.27 | .47 | .23 | .32 AMP |
| 216 | 37.89 | 16.96 | 623 | 136.35 | 316.28 | 359.83 | 311.86 | 63.83 | 238.38 | 158.78 | 178.65 PHASE |
| 217 | 39.88 | 18.88 | 622 | 18.27 | 5.38 | 4.84 | .56 | 2.21 | .58 | .23 | .29 AMP |
| 218 | 48.86 | 19.28 | 622 | 137.48 | 316.49 | 6.46 | 386.87 | 58.31 | 237.35 | 161.34 | 172.68 PHASE |
| 219 | 48.38 | 19.66 | 624 | 11.88 | 5.61 | 5.18 | .46 | 2.33 | .56 | .27 | .27 AMP |
| 228 | 48.68 | 19.98 | 621 | 132.42 | 388.16 | 2.37 | 274.85 | 44.61 | 289.44 | 178.52 | 157.66 PHASE |
| 221 | 34.68 | 18.98 | 622 | 11.94 | 5.55 | 5.58 | .31 | 2.56 | .58 | .25 | .26 AMP |
| 222 | 35.88 | 13.84 | 621 | 131.56 | 318.61 | 9.13 | 269.92 | 61.89 | 288.71 | 215.99 | 184.89 PHASE |
| 223 | 36.92 | 13.78 | 622 | 12.51 | 5.71 | 5.65 | .66 | 2.49 | .69 | .33 | .28 AMP |
| 224 | 38.89 | 15.88 | 622 | 129.94 | 312.96 | 12.79 | 225.34 | 81.24 | 184.36 | 243.53 | 212.59 PHASE |
| 225 | 39.23 | 15.72 | 623 | 12.55 | 5.96 | 5.21 | .99 | 2.65 | .79 | .35 | .21 AMP |
| 226 | 48.47 | 16.88 | 621 | 125.37 | 386.92 | 3.87 | 197.17 | 77.61 | 158.39 | 245.45 | 223.14 PHASE |
| 227 | 41.86 | 17.57 | 621 | 12.64 | 6.31 | 5.82 | 1.33 | 2.61 | .95 | .24 | .12 AMP |
| 228 | 41.36 | 18.48 | 615 | 121.75 | 387.24 | 358.63 | 192.38 | 91.38 | 152.37 | 239.88 | 285.88 PHASE |
| 229 | 41.36 | 18.48 | 615 | 6.67 | 2.99 | 2.93 | .45 | 2.48 | .28 | .14 | .31 AMP |
| 230 | 32.52 | 14.58 | 622 | 132.15 | 321.88 | 358.76 | 354.83 | 28.53 | 291.15 | 283.86 | 168.44 PHASE |
| 231 | 32.52 | 14.58 | 622 | 7.66 | 3.98 | 4.84 | .57 | 2.21 | .32 | .24 | .38 AMP |
| 232 | 32.52 | 14.58 | 622 | 139.82 | 322.25 | 2.79 | 348.74 | 44.53 | 268.12 | 191.91 | 178.88 PHASE |
| 233 | 36.92 | 13.78 | 622 | 8.47 | 4.31 | 4.57 | .68 | 2.39 | .39 | .21 | .27 AMP |
| 234 | 38.89 | 15.88 | 622 | 138.81 | 321.78 | 4.76 | 334.97 | 34.29 | 265.29 | 196.83 | 163.39 PHASE |
| 235 | 38.89 | 15.88 | 622 | 9.61 | 5.82 | 5.22 | .79 | 2.78 | .38 | .27 | .27 AMP |
| 236 | 38.89 | 15.88 | 622 | 139.45 | 323.79 | 8.88 | 328.43 | 37.68 | 257.61 | 237.46 | 152.68 PHASE |
| 237 | 33.55 | 15.95 | 622 | 18.51 | 5.18 | 5.57 | .98 | 3.88 | .28 | .34 | .25 AMP |
| 238 | 34.57 | 16.81 | 623 | 132.65 | 313.88 | 354.57 | 318.88 | 14.33 | 224.46 | 213.88 | 113.95 PHASE |
| 239 | 35.37 | 17.47 | 623 | 11.79 | 5.51 | 6.18 | 1.13 | 2.88 | .38 | .58 | .26 AMP |
| 240 | 36.38 | 18.71 | 621 | 136.31 | 322.91 | 9.22 | 326.74 | 48.91 | 228.77 | 261.88 | 147.46 PHASE |
| 241 | 36.95 | 18.79 | 622 | 12.18 | 5.84 | 6.87 | 1.89 | 2.88 | .25 | .53 | .16 AMP |
| 242 | 37.63 | 19.13 | 622 | 134.74 | 319.28 | 5.94 | 388.36 | 37.87 | 191.78 | 263.18 | 117.61 PHASE |
| 243 | 38.88 | 19.14 | 622 | 12.55 | 6.11 | 5.89 | .83 | 2.58 | .34 | .38 | .17 AMP |
| 244 | 38.81 | 14.85 | 621 | 129.69 | 312.49 | 359.28 | 298.18 | 39.78 | 151.63 | 246.79 | 93.88 PHASE |
| 245 | 32.25 | 16.23 | 622 | 8.38 | 4.28 | 2.37 | .21 | 3.18 | .58 | .13 | .31 AMP |
| 246 | 32.97 | 17.53 | 622 | 134.56 | 313.21 | 352.21 | 292.27 | 52.57 | 289.19 | 184.88 | 195.46 PHASE |
| 247 | 33.68 | 18.22 | 622 | 9.48 | 4.75 | 2.99 | .13 | 3.43 | .48 | .19 | .84 AMP |
| 248 | 34.47 | 19.58 | 622 | 137.82 | 314.36 | 3.26 | 355.89 | 59.74 | 322.69 | 168.83 | 244.13 PHASE |
| 249 | 34.96 | 28.28 | 622 | 18.46 | 5.29 | 3.47 | .17 | 3.31 | .31 | .26 | .85 AMP |
| 250 | 35.54 | 28.64 | 622 | 139.48 | 315.69 | 13.82 | 99.67 | 78.63 | 318.86 | 161.55 | 2.12 PHASE |
| 251 | 35.54 | 28.64 | 622 | 11.41 | 5.82 | 3.99 | .32 | 3.85 | .33 | .33 | .16 AMP |
| 252 | 35.54 | 28.64 | 622 | 135.98 | 388.21 | 9.76 | 81.89 | 48.98 | 281.91 | 149.62 | 359.95 PHASE |
| 253 | 35.54 | 28.64 | 622 | 12.29 | 6.22 | 4.72 | .55 | 2.83 | .23 | .29 | .15 AMP |
| 254 | 35.54 | 28.64 | 622 | 135.74 | 311.94 | 18.76 | 182.82 | 65.38 | 245.39 | 181.66 | 343.89 PHASE |
| 255 | 35.54 | 28.64 | 622 | 12.88 | 6.78 | 5.81 | .57 | 2.11 | .51 | .25 | .49 AMP |
| 256 | 35.54 | 28.64 | 622 | 133.86 | 313.24 | 22.51 | 94.51 | 55.52 | 282.24 | 288.21 | 322.73 PHASE |
| 257 | 35.54 | 28.64 | 622 | 13.35 | 7.64 | 4.53 | .56 | 1.17 | .79 | .36 | .55 AMP |
| 258 | 35.54 | 28.64 | 622 | 133.72 | 319.84 | 29.54 | 148.82 | 56.14 | 283.67 | 241.87 | 338.58 PHASE |
| 259 | 35.54 | 28.64 | 622 | 13.15 | 9.88 | 2.46 | .88 | 2.65 | .28 | .58 | .58 AMP |
| 260 | 35.54 | 28.64 | 622 | 125.28 | 386.37 | 353.98 | 288.88 | 333.63 | 149.42 | 153.16 | 382.58 PHASE |
| 261 | 35.54 | 28.64 | 622 | 9.96 | 4.77 | 1.82 | .34 | 3.14 | .48 | .28 | .89 AMP |
| 262 | 35.54 | 28.64 | 622 | 136.98 | 315.25 | 41.84 | 183.75 | 62.15 | 314.81 | 158.98 | 294.78 PHASE |
| 263 | 35.54 | 28.64 | 622 | 11.68 | 5.78 | 1.96 | .63 | 2.98 | .48 | .31 | .89 AMP |
| 264 | 35.54 | 28.64 | 622 | 141.79 | 315.31 | 57.55 | 188.34 | 68.68 | 357.18 | 168.92 | 37.48 PHASE |
| 265 | 35.54 | 28.64 | 622 | 12.58 | 6.31 | 2.57 | .82 | 3.81 | .35 | .32 | .23 AMP |
| 266 | 35.54 | 28.64 | 622 | 137.12 | 386.11 | 44.89 | 83.25 | 44.28 | 325.91 | 149.46 | 92.89 PHASE |
| 267 | 35.54 | 28.64 | 622 | 13.32 | 6.98 | 3.38 | .98 | 2.85 | .39 | .28 | .34 AMP |
| 268 | 35.54 | 28.64 | 622 | 138.56 | 389.51 | 42.78 | 85.61 | 43.65 | 332.48 | 141.98 | 97.43 PHASE |
| 269 | 35.54 | 28.64 | 622 | 14.81 | 7.48 | 3.96 | .76 | 2.41 | .21 | .36 | .36 AMP |
| 270 | 35.54 | 28.64 | 622 | 135.58 | 389.79 | 32.28 | 88.91 | 39.43 | 317.43 | 141.16 | 95.32 PHASE |
| 271 | 35.54 | 28.64 | 622 | 14.61 | 8.36 | 4.84 | .51 | 2.84 | .84 | .22 | .25 AMP |
| 272 | 35.54 | 28.64 | 622 | 136.19 | 312.45 | 36.58 | 118.26 | 24.75 | 233.91 | 151.81 | 12.69 PHASE |
| 273 | 35.54 | 28.64 | 622 | 14.64 | 9.86 | 2.59 | 1.85 | 1.38 | .33 | .29 | .42 AMP |
| 274 | 35.54 | 28.64 | 622 | 133.64 | 312.49 | 15.84 | 215.43 | 345.98 | 288.62 | 174.87 | 345.48 PHASE |

TABLE VII.- Continued

(c) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | | | |
|-----------------------------|--------|--------|------|---------|--------|--------|--------|--------|--------|--------|--------|-------|----|
| PT NO | RUN NO | 1# | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 29.55 | 33.99 | 623 | 15.79 | 5.41 | 4.19 | 5.92 | 6.98 | 9.82 | 3.81 | 1.42 | AMP | |
| 214 | 29.39 | 37.58 | 622 | 381.88 | 116.78 | 239.88 | 25.56 | 323.85 | 295.82 | 354.61 | 117.57 | PHASE | |
| 215 | 28.33 | 51.71 | 622 | 21.26 | 6.64 | 6.66 | 7.64 | 8.21 | 9.11 | 4.21 | 1.51 | AMP | |
| 216 | 26.22 | 74.13 | 623 | 388.66 | 121.55 | 226.44 | 15.33 | 316.29 | 293.78 | 1.44 | 91.55 | PHASE | |
| 217 | 24.45 | 85.89 | 622 | 29.76 | 8.23 | 11.28 | 10.55 | 8.26 | 18.34 | 2.28 | 2.71 | AMP | |
| 218 | 22.88 | 188.36 | 622 | 323.61 | 125.39 | 238.31 | 19.64 | 326.47 | 273.93 | 327.44 | 82.83 | PHASE | |
| 219 | 22.65 | 181.13 | 624 | 39.27 | 18.87 | 16.87 | 12.42 | 9.78 | 18.29 | 5.12 | 2.22 | AMP | |
| 220 | 21.98 | 184.59 | 621 | 331.91 | 124.86 | 231.94 | 15.79 | 388.14 | 269.86 | 275.28 | 62.51 | PHASE | |
| 221 | 28.38 | 21.68 | 622 | 49.83 | 12.32 | 28.95 | 13.58 | 11.53 | 21.55 | 6.52 | 1.92 | AMP | |
| 222 | 28.77 | 32.64 | 621 | 337.47 | 129.34 | 243.41 | 23.32 | 313.14 | 383.16 | 282.71 | 65.84 | PHASE | |
| 223 | 29.24 | 46.91 | 622 | 62.68 | 13.98 | 25.47 | 13.72 | 18.96 | 19.67 | 7.22 | 2.83 | AMP | |
| 224 | 29.88 | 64.83 | 622 | 341.82 | 136.58 | 249.34 | 18.25 | 315.17 | 321.26 | 288.81 | 58.15 | PHASE | |
| 225 | 29.23 | 75.56 | 623 | 68.83 | 14.64 | 26.94 | 12.67 | 18.89 | 14.85 | 7.88 | 2.84 | AMP | |
| 226 | 28.18 | 96.99 | 621 | 342.42 | 133.44 | 241.23 | 359.88 | 287.21 | 315.59 | 283.24 | 14.38 | PHASE | |
| 227 | 26.85 | 188.46 | 621 | 75.57 | 16.83 | 29.79 | 12.18 | 18.58 | 11.71 | 7.82 | 1.54 | AMP | |
| 228 | 25.48 | 184.74 | 615 | 345.79 | 138.88 | 239.97 | 344.93 | 252.78 | 387.61 | 312.14 | 15.86 | PHASE | |
| 229 | 25.52 | 52.88 | 623 | 6.68 | 1.53 | 3.89 | 5.96 | 1.22 | 8.52 | 1.97 | 1.28 | AMP | |
| 230 | 28.82 | 68.75 | 623 | 285.35 | 137.15 | 237.46 | 31.88 | 5.73 | 247.99 | 342.68 | 83.19 | PHASE | |
| 231 | 29.52 | 52.88 | 623 | 13.82 | 3.72 | 4.88 | 7.67 | 6.36 | 11.87 | 1.39 | 1.26 | AMP | |
| 232 | 29.82 | 75.58 | 623 | 321.63 | 135.42 | 222.81 | 32.45 | 324.96 | 382.29 | 2.63 | 118.99 | PHASE | |
| 233 | 29.85 | 75.58 | 621 | 19.28 | 4.69 | 8.42 | 9.68 | 6.71 | 13.32 | 1.37 | 1.66 | AMP | |
| 234 | 29.88 | 118.68 | 622 | 331.98 | 135.36 | 227.23 | 27.28 | 329.78 | 286.26 | 279.38 | 98.82 | PHASE | |
| 235 | 29.88 | 118.68 | 622 | 28.18 | 5.34 | 13.27 | 12.85 | 6.88 | 16.55 | 4.22 | 1.73 | AMP | |
| 236 | 33.16 | 32.16 | 622 | 343.34 | 148.49 | 238.45 | 26.75 | 324.69 | 288.32 | 287.78 | 96.41 | PHASE | |
| 237 | 32.88 | 45.25 | 622 | 35.78 | 6.34 | 17.36 | 14.67 | 5.58 | 19.88 | 5.66 | 1.72 | AMP | |
| 238 | 38.52 | 52.88 | 623 | 337.71 | 127.38 | 224.89 | 2.77 | 286.85 | 266.98 | 244.68 | 41.45 | PHASE | |
| 239 | 28.82 | 68.75 | 623 | 58.72 | 8.18 | 22.97 | 17.39 | 5.37 | 19.79 | 6.48 | 2.25 | AMP | |
| 240 | 25.85 | 75.58 | 621 | 345.25 | 139.59 | 242.18 | 14.66 | 281.41 | 382.15 | 283.94 | 68.75 | PHASE | |
| 241 | 21.71 | 93.42 | 622 | 58.68 | 8.85 | 25.94 | 17.63 | 5.75 | 18.28 | 7.46 | 2.45 | AMP | |
| 242 | 19.29 | 188.61 | 622 | 347.89 | 136.19 | 241.79 | 9.2 | 247.13 | 294.76 | 291.86 | 46.41 | PHASE | |
| 243 | 18.88 | 118.68 | 622 | 64.97 | 9.86 | 28.26 | 18.17 | 8.65 | 21.87 | 7.49 | 2.85 | AMP | |
| 244 | 29.52 | 38.88 | 621 | 349.14 | 134.25 | 236.96 | 332.28 | 224.19 | 388.84 | 294.15 | 12.65 | PHASE | |
| 245 | 26.81 | 55.23 | 622 | 12.58 | 3.44 | 4.37 | 4.87 | 7.46 | 5.15 | 2.54 | .34 | AMP | |
| 246 | 24.56 | 63.88 | 622 | 262.38 | 99.73 | 258.49 | 34.81 | 13.23 | 289.56 | 8.61 | 78.43 | PHASE | |
| 247 | 21.64 | 66.98 | 622 | 18.15 | 5.37 | 6.45 | 6.84 | 5.83 | 19.68 | 2.88 | 1.41 | AMP | |
| 248 | 19.24 | 75.85 | 622 | 283.48 | 189.39 | 268.14 | 37.63 | 357.68 | 248.86 | 358.68 | 57.78 | PHASE | |
| 249 | 15.34 | 91.23 | 622 | 26.26 | 8.78 | 6.62 | 7.52 | 8.43 | 16.81 | 5.29 | 1.76 | AMP | |
| 250 | 13.11 | 97.66 | 622 | 383.55 | 115.44 | 253.47 | 36.41 | 325.37 | 283.71 | 14.36 | 84.14 | PHASE | |
| 251 | | | | 33.99 | 11.19 | 9.84 | 9.54 | 9.44 | 22.43 | 4.74 | 1.83 | AMP | |
| 252 | | | | 315.57 | 117.47 | 238.88 | 38.94 | 319.78 | 285.81 | 355.39 | 48.91 | PHASE | |
| 253 | | | | 43.99 | 13.34 | 13.58 | 11.89 | 12.53 | 26.83 | 5.26 | 2.83 | AMP | |
| 254 | | | | 327.12 | 127.85 | 252.79 | 41.66 | 334.19 | 327.24 | 345.21 | 44.73 | PHASE | |
| 255 | | | | 53.63 | 15.13 | 17.13 | 12.48 | 15.78 | 29.86 | 8.88 | 2.43 | AMP | |
| 256 | | | | 335.17 | 132.61 | 259.31 | 37.16 | 336.99 | 331.52 | 387.45 | 18.19 | PHASE | |
| 257 | | | | 65.83 | 16.98 | 28.58 | 12.87 | 17.85 | 27.59 | 18.13 | 3.68 | AMP | |
| 258 | | | | 345.75 | 143.48 | 269.84 | 38.82 | 353.76 | 359.82 | 328.52 | 16.77 | PHASE | |
| 259 | | | | 79.25 | 28.86 | 25.25 | 13.12 | 14.11 | 27.47 | 11.58 | 2.93 | AMP | |
| 260 | | | | 351.81 | 147.77 | 257.98 | 8.16 | 318.66 | 327.89 | 282.93 | 388.97 | PHASE | |
| 261 | | | | 17.88 | 4.52 | 5.22 | 3.93 | 6.31 | 7.24 | 2.33 | .48 | AMP | |
| 262 | | | | 263.34 | 85.88 | 251.86 | 47.32 | 7.47 | 258.57 | 24.34 | 248.43 | PHASE | |
| 263 | | | | 24.22 | 7.48 | 7.35 | 6.96 | 3.44 | 21.97 | 1.97 | .83 | AMP | |
| 264 | | | | 298.28 | 116.78 | 289.84 | 73.72 | 338.43 | 278.86 | 16.28 | 92.32 | PHASE | |
| 265 | | | | 29.45 | 18.88 | 7.88 | 8.21 | 8.48 | 27.12 | 3.89 | 1.36 | AMP | |
| 266 | | | | 299.26 | 118.18 | 276.86 | 62.39 | 288.31 | 275.12 | .85 | 91.32 | PHASE | |
| 267 | | | | 35.79 | 13.51 | 8.82 | 8.65 | 12.78 | 27.46 | 2.86 | 1.84 | AMP | |
| 268 | | | | 314.56 | 128.16 | 273.84 | 77.16 | 389.48 | 389.75 | 7.66 | 112.94 | PHASE | |
| 269 | | | | 44.79 | 15.18 | 18.89 | 8.68 | 15.73 | 27.84 | 2.89 | 1.68 | AMP | |
| 270 | | | | 328.76 | 129.23 | 265.54 | 68.42 | 315.11 | 314.71 | 298.67 | 54.87 | PHASE | |
| 271 | | | | 54.67 | 18.84 | 14.78 | 9.22 | 18.21 | 25.83 | 18.31 | 1.96 | AMP | |
| 272 | | | | 335.85 | 135.55 | 271.95 | 58.81 | 339.74 | 324.14 | 271.46 | 29.25 | PHASE | |
| 273 | | | | 65.28 | 19.28 | 18.82 | 8.41 | 19.19 | 24.87 | 13.88 | 2.58 | AMP | |
| 274 | | | | 343.88 | 141.82 | 274.74 | 25.21 | 328.28 | 389.53 | 263.34 | 38.47 | PHASE | |

TABLE VII.- Continued

(c) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 1P | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 5.31 | 8.14 | 623 | 6.66 | .88 | .32 | 1.88 | .91 | .26 | .47 | .87 AMP |
| 214 | 3.58 | 8.41 | 622 | 338.78 | 82.89 | 314.78 | 223.28 | 277.25 | 48.49 | 221.35 | 28.29 PHASE |
| 215 | 1.45 | 9.63 | 622 | 7.14 | .63 | .27 | 1.86 | .98 | .15 | .53 | .87 AMP |
| 216 | -.81 | 11.63 | 623 | 341.84 | 67.51 | 381.79 | 215.78 | 275.38 | 43.34 | 215.91 | 122.48 PHASE |
| 217 | -3.18 | 13.98 | 622 | 8.18 | .76 | .24 | 1.38 | .98 | .18 | .78 | .86 AMP |
| 218 | -5.74 | 17.82 | 622 | 347.37 | 65.98 | 247.14 | 215.62 | 268.45 | 62.88 | 281.75 | 265.16 PHASE |
| 219 | -6.97 | 19.83 | 624 | 9.53 | 1.14 | .73 | 1.68 | 1.81 | .19 | .73 | .88 AMP |
| 220 | -8.55 | 21.19 | 621 | 349.83 | 72.22 | 283.85 | 288.18 | 257.58 | 47.28 | 181.62 | 81.21 PHASE |
| 221 | 5.48 | 6.76 | 622 | 11.83 | 1.52 | 1.25 | 1.71 | 1.26 | .19 | .72 | .12 AMP |
| 222 | 3.47 | 7.41 | 621 | 355.88 | 87.97 | 281.82 | 219.27 | 274.65 | 29.29 | 195.53 | 98.44 PHASE |
| 223 | 1.88 | 7.96 | 622 | 13.82 | 2.14 | 1.95 | 1.95 | 1.71 | .44 | .67 | .13 AMP |
| 224 | -.19 | 8.97 | 622 | 358.75 | 92.28 | 288.39 | 227.64 | 288.39 | 324.38 | 289.88 | 157.36 PHASE |
| 225 | -1.88 | 9.96 | 623 | 14.43 | 2.52 | 2.39 | 2.21 | 2.16 | .78 | .68 | .11 AMP |
| 226 | -3.98 | 11.91 | 621 | 356.18 | 84.48 | 195.99 | 222.82 | 277.54 | 293.84 | 194.28 | 158.77 PHASE |
| 227 | -5.86 | 13.42 | 621 | 16.19 | 2.92 | 2.81 | 2.28 | 2.22 | .98 | .88 | .12 AMP |
| 228 | -6.12 | 15.33 | 615 | 355.93 | 81.41 | 282.31 | 232.54 | 281.61 | 271.86 | 288.18 | 283.72 PHASE |
| 229 | 8.57 | 8.61 | 622 | 5.64 | .57 | .31 | .91 | .94 | .13 | .23 | .84 AMP |
| 230 | 6.71 | 8.96 | 622 | 329.31 | 78.18 | 381.83 | 289.22 | 243.93 | 44.18 | 192.37 | 322.36 PHASE |
| 231 | 4.63 | 9.45 | 623 | 6.15 | .58 | .38 | .93 | .98 | .14 | .58 | .83 AMP |
| 232 | 2.34 | 18.95 | 623 | 348.88 | 78.88 | 319.86 | 215.18 | 256.82 | 36.15 | 224.21 | 61.96 PHASE |
| 233 | .89 | 12.93 | 621 | 6.79 | .48 | .22 | 1.18 | 1.82 | .88 | .44 | .84 AMP |
| 234 | -2.58 | 15.41 | 622 | 345.29 | 55.96 | 299.88 | 216.24 | 249.22 | 16.21 | 287.48 | 381.65 PHASE |
| 235 | -5.44 | 19.13 | 622 | 7.79 | .47 | .19 | 1.39 | 1.17 | .88 | .55 | .82 AMP |
| 236 | -9.43 | 23.56 | 622 | 358.88 | 52.77 | 234.88 | 216.88 | 251.47 | 79.67 | 282.43 | 122.71 PHASE |
| 237 | 18.19 | 9.37 | 621 | 8.57 | .58 | .34 | 1.57 | 1.32 | .11 | .56 | .88 AMP |
| 238 | 7.19 | 9.91 | 622 | 348.54 | 49.87 | 187.47 | 192.61 | 226.25 | 71.53 | 165.52 | 81.55 PHASE |
| 239 | 5.86 | 18.81 | 622 | 9.82 | .69 | .83 | 1.82 | 1.35 | .22 | .48 | .18 AMP |
| 240 | 2.59 | 12.24 | 622 | 356.28 | 82.62 | 185.78 | 213.28 | 268.79 | 82.28 | 191.15 | 186.32 PHASE |
| 241 | .35 | 14.17 | 622 | 18.75 | 1.81 | 1.24 | 1.89 | 1.33 | .36 | .47 | .18 AMP |
| 242 | -2.83 | 17.36 | 622 | 357.13 | 86.98 | 183.59 | 211.91 | 266.63 | 57.97 | 176.97 | 182.71 PHASE |
| 243 | -6.28 | 19.84 | 622 | 11.81 | 1.46 | 1.78 | 2.81 | 1.54 | .34 | .49 | .12 AMP |
| 244 | 18.19 | 9.37 | 621 | 355.48 | 85.83 | 174.93 | 284.89 | 266.25 | 18.78 | 167.56 | 287.27 PHASE |
| 245 | 7.19 | 9.91 | 622 | 6.35 | 1.48 | .54 | 1.21 | 1.27 | .82 | .44 | .18 AMP |
| 246 | 5.86 | 18.81 | 622 | 326.83 | 182.65 | 344.32 | 238.16 | 268.84 | 339.36 | 211.66 | 98.48 PHASE |
| 247 | 2.59 | 12.24 | 622 | 6.78 | 1.31 | .65 | 1.12 | 1.28 | .14 | .55 | .19 AMP |
| 248 | -2.83 | 17.36 | 622 | 334.47 | 181.79 | 355.82 | 247.99 | 261.88 | 383.88 | 215.82 | 135.68 PHASE |
| 249 | -6.28 | 19.84 | 622 | 7.44 | 1.26 | .55 | 1.88 | 1.35 | .85 | .62 | .27 AMP |
| 250 | -6.28 | 19.84 | 622 | 341.88 | 93.13 | 6.94 | 244.37 | 267.33 | 228.83 | 219.25 | 159.24 PHASE |
| | | | | 8.67 | 1.53 | .22 | 1.32 | 1.51 | .13 | .76 | .38 AMP |
| | | | | 343.38 | 78.22 | 335.71 | 233.44 | 242.57 | 282.83 | 218.11 | 141.99 PHASE |
| | | | | 18.27 | 1.92 | .27 | 1.72 | 1.73 | .23 | .74 | .25 AMP |
| | | | | 358.22 | 82.74 | 221.27 | 234.84 | 259.57 | 264.25 | 235.63 | 158.52 PHASE |
| | | | | 12.41 | 2.36 | .98 | 2.88 | 2.86 | .48 | .85 | .48 AMP |
| | | | | 353.56 | 86.11 | 219.28 | 233.84 | 249.92 | 274.14 | 231.16 | 136.14 PHASE |
| | | | | 15.32 | 2.49 | 1.83 | 2.67 | 2.61 | .71 | 1.86 | .36 AMP |
| | | | | 357.41 | 92.42 | 241.34 | 245.38 | 264.14 | 298.48 | 249.91 | 168.16 PHASE |
| | | | | 19.93 | 1.86 | .84 | 3.85 | 3.48 | 1.85 | 2.87 | .48 AMP |
| | | | | 358.57 | 86.62 | 246.92 | 241.88 | 238.38 | 236.35 | 222.11 | 215.89 PHASE |
| | | | | 6.76 | 1.88 | .41 | .85 | 1.32 | .27 | .47 | .37 AMP |
| | | | | 328.75 | 187.21 | 18.83 | 242.87 | 274.65 | 385.41 | 235.51 | 132.88 PHASE |
| | | | | 7.49 | 1.62 | .89 | .88 | 1.88 | .24 | .62 | .34 AMP |
| | | | | 348.32 | 112.24 | 34.41 | 263.97 | 274.78 | 317.48 | 238.88 | 154.53 PHASE |
| | | | | 8.35 | 1.74 | .15 | .76 | 1.12 | .18 | .78 | .25 AMP |
| | | | | 348.21 | 97.67 | 165.52 | 242.92 | 243.83 | 284.78 | 285.66 | 128.69 PHASE |
| | | | | 9.76 | 2.85 | .45 | .88 | 1.43 | .31 | .78 | .34 AMP |
| | | | | 345.87 | 92.32 | 159.49 | 234.46 | 239.87 | 256.79 | 228.26 | 148.69 PHASE |
| | | | | 11.28 | 2.35 | .61 | 1.22 | 1.67 | .47 | .75 | .39 AMP |
| | | | | 347.23 | 87.38 | 169.97 | 227.41 | 248.76 | 268.24 | 222.43 | 144.56 PHASE |
| | | | | 14.18 | 2.69 | .89 | 1.68 | 2.11 | .51 | .85 | .47 AMP |
| | | | | 358.78 | 85.36 | 283.99 | 237.71 | 252.15 | 298.68 | 223.58 | 132.44 PHASE |
| | | | | 17.47 | 2.27 | 1.78 | 1.96 | 2.81 | .39 | .99 | .63 AMP |
| | | | | 358.84 | 76.11 | 254.76 | 268.56 | 266.65 | 319.81 | 213.16 | 185.55 PHASE |

TABLE VII.- Continued

(c) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 1# | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 21.17 | 17.72 | 623 | 11.02 | 6.31 | 5.27 | .95 | .97 | .57 | 1.65 | .93 AMP |
| | | | | 129.38 | 306.42 | 358.32 | 312.92 | 245.46 | 128.52 | 41.57 | 218.28 PHASE |
| 214 | 22.27 | 18.70 | 622 | 11.99 | 6.59 | 6.23 | .91 | .97 | .48 | 1.63 | .58 AMP |
| | | | | 129.41 | 301.58 | 354.55 | 308.24 | 241.48 | 121.60 | 38.96 | 204.12 PHASE |
| 215 | 23.06 | 21.74 | 622 | 13.57 | 7.40 | 7.06 | .90 | .92 | .39 | 1.93 | .68 AMP |
| | | | | 131.82 | 300.31 | 359.82 | 313.64 | 251.04 | 109.55 | 32.35 | 179.11 PHASE |
| 216 | 23.60 | 24.05 | 623 | 15.13 | 8.14 | 7.51 | .84 | .97 | .39 | 2.05 | .46 AMP |
| | | | | 129.64 | 290.91 | 354.06 | 305.00 | 236.78 | 81.49 | 9.27 | 176.15 PHASE |
| 217 | 24.53 | 26.14 | 622 | 16.43 | 8.46 | 8.16 | .82 | 1.04 | .26 | 2.05 | .45 AMP |
| | | | | 130.12 | 291.56 | 359.33 | 307.48 | 248.93 | 76.97 | 15.50 | 184.51 PHASE |
| 218 | 25.50 | 27.57 | 622 | 17.49 | 8.83 | 8.63 | .62 | 1.15 | .30 | 2.07 | .09 AMP |
| | | | | 130.36 | 291.77 | 2.31 | 312.66 | 255.23 | 63.56 | 15.96 | 276.26 PHASE |
| 219 | 25.62 | 27.73 | 624 | 17.74 | 9.21 | 8.17 | .36 | 1.24 | .26 | 2.36 | .55 AMP |
| | | | | 127.00 | 284.95 | 353.24 | 296.81 | 237.31 | 31.56 | 349.13 | 269.02 PHASE |
| 220 | 25.93 | 28.54 | 621 | 18.04 | 9.68 | 8.18 | .07 | .41 | .41 | 2.52 | .80 AMP |
| | | | | 125.89 | 284.01 | 350.30 | 261.69 | 239.54 | 28.23 | 344.35 | 284.62 PHASE |
| 221 | 22.03 | 12.23 | 622 | 8.53 | 3.98 | 3.85 | .62 | .83 | .39 | .71 | .58 AMP |
| | | | | 124.19 | 306.74 | 343.23 | 286.32 | 225.59 | 109.30 | 19.99 | 165.18 PHASE |
| 222 | 22.76 | 14.99 | 621 | 9.90 | 5.16 | 5.46 | .56 | .81 | .43 | .78 | .53 AMP |
| | | | | 131.32 | 307.96 | 355.85 | 307.12 | 234.44 | 132.05 | 37.43 | 177.04 PHASE |
| 223 | 23.66 | 17.13 | 622 | 11.00 | 5.69 | 6.29 | .44 | .81 | .35 | .92 | .59 AMP |
| | | | | 132.51 | 305.95 | 358.19 | 301.18 | 226.17 | 123.73 | 31.68 | 159.47 PHASE |
| 224 | 24.51 | 19.91 | 622 | 12.63 | 6.66 | 7.41 | .40 | .93 | .25 | .91 | .52 AMP |
| | | | | 135.28 | 306.61 | 2.89 | 309.37 | 242.26 | 121.76 | 21.50 | 157.76 PHASE |
| 225 | 25.54 | 21.71 | 623 | 13.93 | 7.00 | 8.06 | .35 | .91 | .19 | .81 | .55 AMP |
| | | | | 130.09 | 295.80 | 348.76 | 308.00 | 222.30 | 66.98 | 337.46 | 107.94 PHASE |
| 226 | 26.73 | 24.43 | 621 | 15.68 | 7.65 | 9.06 | .25 | .93 | .21 | .78 | .64 AMP |
| | | | | 135.28 | 303.16 | 3.46 | 343.37 | 245.92 | 63.55 | 349.51 | 111.71 PHASE |
| 227 | 27.20 | 25.18 | 621 | 16.40 | 8.07 | 9.21 | .22 | 1.03 | .23 | 1.01 | .45 AMP |
| | | | | 134.92 | 297.59 | .26 | 356.80 | 246.99 | 8.96 | 330.90 | 94.59 PHASE |
| 228 | 27.37 | 26.64 | 615 | 17.09 | 8.26 | 9.20 | .31 | .92 | .30 | 1.10 | .68 AMP |
| | | | | 130.91 | 290.02 | 353.42 | 63.03 | 231.45 | 344.54 | 319.84 | 99.72 PHASE |
| 236 | 18.69 | 16.14 | 622 | 10.16 | 5.99 | 3.47 | .63 | 1.12 | 1.01 | 1.97 | .59 AMP |
| | | | | 125.43 | 307.28 | 346.45 | 298.59 | 212.70 | 113.48 | 47.75 | 257.13 PHASE |
| 237 | 19.54 | 17.40 | 622 | 11.59 | 6.53 | 4.43 | .64 | .95 | 1.14 | 2.12 | .52 AMP |
| | | | | 130.04 | 307.45 | 356.63 | 311.30 | 222.64 | 118.30 | 62.93 | 353.46 PHASE |
| 238 | 20.33 | 19.02 | 623 | 13.05 | 7.25 | 5.05 | .67 | .83 | 1.02 | 1.95 | .69 AMP |
| | | | | 133.29 | 306.48 | 2.61 | 318.25 | 220.85 | 125.25 | 70.52 | 22.42 PHASE |
| 239 | 20.97 | 21.81 | 623 | 14.70 | 7.85 | 5.67 | .63 | .72 | .95 | 2.30 | 1.01 AMP |
| | | | | 131.16 | 297.86 | 357.83 | 314.76 | 191.41 | 92.87 | 54.74 | 1.69 PHASE |
| 240 | 21.79 | 23.94 | 621 | 16.16 | 8.57 | 6.55 | .77 | .49 | .94 | 2.39 | 1.00 AMP |
| | | | | 132.85 | 300.84 | 6.30 | 344.26 | 207.71 | 93.70 | 66.19 | 1.55 PHASE |
| 241 | 22.39 | 25.02 | 622 | 17.38 | 9.30 | 6.73 | .89 | .24 | .95 | 2.72 | 1.98 AMP |
| | | | | 132.24 | 300.23 | 9.44 | 7.53 | 157.12 | 73.51 | 53.72 | 341.84 PHASE |
| 242 | 22.91 | 27.59 | 622 | 18.49 | 10.49 | 6.25 | .82 | .32 | 1.07 | 2.84 | 2.17 AMP |
| | | | | 134.64 | 305.49 | 15.74 | 55.04 | 128.63 | 67.57 | 65.31 | 359.82 PHASE |
| 243 | 22.81 | 29.41 | 622 | 18.58 | 13.46 | 4.59 | .50 | .29 | 1.57 | 3.15 | 2.76 AMP |
| | | | | 129.75 | 293.27 | 348.00 | 99.47 | 15.64 | 20.51 | 18.52 | 327.29 PHASE |
| 244 | 16.71 | 16.22 | 621 | 11.20 | 6.43 | 2.14 | .34 | 1.33 | 1.30 | 1.90 | 1.02 AMP |
| | | | | 127.85 | 311.04 | 12.60 | 292.06 | 209.74 | 133.02 | 76.91 | 336.72 PHASE |
| 245 | 17.89 | 20.09 | 622 | 13.44 | 7.61 | 3.21 | .53 | .92 | 1.24 | 2.04 | .93 AMP |
| | | | | 135.19 | 310.23 | 33.37 | 323.95 | 227.65 | 136.88 | 88.30 | 13.90 PHASE |
| 246 | 18.45 | 21.81 | 622 | 14.33 | 8.30 | 3.72 | .70 | .90 | 1.16 | 1.89 | .37 AMP |
| | | | | 132.04 | 299.17 | 20.50 | 308.40 | 202.71 | 114.66 | 60.60 | 358.03 PHASE |
| 247 | 19.03 | 23.98 | 622 | 16.12 | 8.91 | 4.59 | .83 | .74 | 1.17 | 1.92 | .76 AMP |
| | | | | 134.17 | 301.41 | 24.18 | 330.00 | 193.46 | 110.51 | 74.27 | 8.69 PHASE |
| 248 | 19.72 | 26.01 | 622 | 17.18 | 9.69 | 5.54 | .91 | .64 | .93 | 2.00 | .99 AMP |
| | | | | 133.65 | 299.13 | 15.83 | 345.84 | 186.17 | 101.10 | 60.20 | 5.52 PHASE |
| 249 | 19.99 | 28.39 | 622 | 18.25 | 11.34 | 5.90 | .78 | .56 | .83 | 2.27 | 1.78 AMP |
| | | | | 135.26 | 300.98 | 17.24 | 9.21 | 183.70 | 74.54 | 52.76 | 344.88 PHASE |
| 250 | 20.19 | 30.13 | 622 | 18.68 | 13.90 | 5.22 | .37 | .28 | 1.07 | 2.80 | 2.35 AMP |
| | | | | 135.56 | 300.52 | 359.43 | 18.68 | 220.74 | 28.84 | 39.30 | 341.28 PHASE |

TABLE VII.- Continued

(c) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 1Ø | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | 27.92 | 38.5Ø | 623 | 15.45 | 4.84 | 3.95 | 7.44 | 7.6Ø | 11.45 | 5.15 | 1.99 AMP |
| | | | | 298.66 | 115.97 | 261.52 | 29.59 | 323.94 | 296.28 | 3.4Ø | 132.66 PHASE |
| 214 | 27.58 | 43.78 | 622 | 28.3Ø | 5.88 | 5.96 | 9.64 | 8.85 | 11.46 | 5.69 | 2.12 AMP |
| | | | | 3Ø4.29 | 118.66 | 246.24 | 19.41 | 316.13 | 296.87 | 8.Ø7 | 1Ø1.8Ø PHASE |
| 215 | 26.7Ø | 53.16 | 622 | 27.54 | 7.44 | 9.71 | 12.62 | 9.2Ø | 12.93 | 2.82 | 3.91 AMP |
| | | | | 316.94 | 12Ø.48 | 246.73 | 23.25 | 327.65 | 276.29 | 341.86 | 93.44 PHASE |
| 216 | 24.35 | 75.81 | 623 | 35.77 | 9.99 | 14.15 | 14.59 | 1Ø.92 | 22.86 | 6.18 | 3.29 AMP |
| | | | | 324.29 | 12Ø.88 | 245.52 | 16.82 | 31Ø.28 | 272.Ø1 | 279.93 | 8Ø.22 PHASE |
| 217 | 21.5Ø | 84.Ø7 | 622 | 45.38 | 11.45 | 19.14 | 16.19 | 12.43 | 27.82 | 8.29 | 2.73 AMP |
| | | | | 33Ø.48 | 124.69 | 254.55 | 23.19 | 317.87 | 3Ø5.58 | 285.29 | 88.44 PHASE |
| 218 | 18.Ø7 | 93.23 | 622 | 55.66 | 13.46 | 24.1Ø | 17.89 | 11.41 | 24.67 | 9.68 | 2.31 AMP |
| | | | | 335.32 | 13Ø.Ø3 | 258.Ø4 | 18.46 | 318.75 | 323.46 | 291.32 | 64.23 PHASE |
| 219 | 18.19 | 91.83 | 624 | 61.1Ø | 14.98 | 26.Ø4 | 16.14 | 1Ø.17 | 18.69 | 1Ø.71 | 2.38 AMP |
| | | | | 336.16 | 126.37 | 248.5Ø | .Ø8 | 287.Ø5 | 317.Ø1 | 288.3Ø | 15.9Ø PHASE |
| 22Ø | 16.81 | 1ØØ.99 | 621 | 67.31 | 17.54 | 29.79 | 15.5Ø | 12.ØØ | 15.Ø3 | 9.59 | 1.92 AMP |
| | | | | 34Ø.47 | 131.76 | 247.14 | 35Ø.75 | 246.2Ø | 3Ø7.7Ø | 317.67 | 6.4Ø PHASE |
| 221 | 24.7Ø | 27.22 | 622 | 6.74 | 1.38 | 2.94 | 6.96 | 1.27 | 1Ø.66 | 2.71 | 1.81 AMP |
| | | | | 287.58 | 151.86 | 258.72 | 3Ø.85 | 6.39 | 25Ø.28 | 345.31 | 89.54 PHASE |
| 222 | 24.13 | 36.6Ø | 621 | 12.47 | 3.29 | 4.12 | 9.31 | 6.63 | 14.89 | 1.71 | 1.87 AMP |
| | | | | 316.2Ø | 135.ØØ | 246.33 | 34.38 | 325.76 | 3Ø4.18 | 14.28 | 124.63 PHASE |
| 223 | 24.29 | 5Ø.46 | 622 | 17.85 | 4.18 | 7.28 | 11.61 | 7.25 | 16.95 | 1.65 | 2.58 AMP |
| | | | | 325.51 | 135.33 | 245.95 | 3Ø.95 | 332.61 | 287.9Ø | 27Ø.36 | 112.14 PHASE |
| 224 | 24.25 | 66.81 | 622 | 25.43 | 4.7Ø | 11.68 | 14.35 | 6.74 | 28.91 | 5.71 | 2.93 AMP |
| | | | | 335.65 | 138.62 | 253.86 | 3Ø.59 | 33Ø.61 | 289.57 | 285.Ø7 | 116.58 PHASE |
| 225 | 24.43 | 77.65 | 623 | 32.26 | 5.6Ø | 15.1Ø | 17.42 | 5.76 | 25.Ø4 | 7.76 | 2.62 AMP |
| | | | | 33Ø.53 | 126.88 | 238.28 | 6.26 | 295.66 | 268.53 | 242.4Ø | 61.58 PHASE |
| 226 | 23.26 | 93.59 | 621 | 44.76 | 6.99 | 2Ø.55 | 2Ø.85 | 5.Ø4 | 24.94 | 9.19 | 3.Ø6 AMP |
| | | | | 338.41 | 137.Ø4 | 254.78 | 18.58 | 287.81 | 3Ø4.Ø1 | 282.28 | 84.42 PHASE |
| 227 | 22.37 | 91.62 | 621 | 51.17 | 7.52 | 23.59 | 21.82 | 5.23 | 22.75 | 1Ø.28 | 3.15 AMP |
| | | | | 34Ø.72 | 138.3Ø | 253.15 | 5.65 | 246.83 | 295.5Ø | 291.39 | 54.23 PHASE |
| 228 | 21.28 | 95.37 | 615 | 56.19 | 8.62 | 26.83 | 21.89 | 8.43 | 26.91 | 1Ø.17 | 2.38 AMP |
| | | | | 341.38 | 126.49 | 246.57 | 339.96 | 221.62 | 3Ø1.26 | 296.93 | 15.67 PHASE |
| 236 | 33.74 | 34.89 | 622 | 12.55 | 3.33 | 4.23 | 5.52 | 8.Ø7 | 6.47 | 3.82 | .53 AMP |
| | | | | 264.62 | 1ØØ.75 | 26Ø.95 | 36.23 | 14.Ø8 | 211.2Ø | 16.85 | 9Ø.64 PHASE |
| 237 | 32.89 | 48.31 | 622 | 17.56 | 5.Ø7 | 6.15 | 7.Ø7 | 5.45 | 24.24 | 2.83 | 2.Ø1 AMP |
| | | | | 282.25 | 1Ø8.Ø1 | 268.73 | 38.79 | .35 | 243.11 | 3.41 | 62.Ø1 PHASE |
| 238 | 32.Ø3 | 55.28 | 623 | 24.39 | 8.Ø2 | 6.25 | 8.85 | 8.81 | 2Ø.84 | 7.13 | 2.41 AMP |
| | | | | 299.79 | 113.19 | 265.25 | 39.Ø7 | 326.ØØ | 286.76 | 22.12 | 9Ø.42 PHASE |
| 239 | 29.8Ø | 67.8Ø | 623 | 31.47 | 1Ø.48 | 8.86 | 11.1Ø | 1Ø.15 | 27.84 | 6.29 | 2.61 AMP |
| | | | | 311.Ø8 | 111.95 | 249.67 | 32.94 | 323.37 | 288.6Ø | 6.63 | 68.62 PHASE |
| 24Ø | 27.Ø2 | 81.8Ø | 621 | 4Ø.77 | 12.55 | 12.51 | 13.13 | 14.17 | 32.44 | 6.21 | 2.33 AMP |
| | | | | 321.58 | 121.34 | 263.92 | 43.77 | 339.96 | 33Ø.32 | .45 | 68.23 PHASE |
| 241 | 23.55 | 1Ø1.Ø2 | 622 | 5Ø.Ø9 | 14.32 | 15.9Ø | 14.97 | 18.19 | 36.33 | 8.64 | 2.88 AMP |
| | | | | 323.93 | 124.84 | 268.91 | 37.52 | 344.74 | 335.43 | 315.97 | 16.71 PHASE |
| 242 | 2Ø.4Ø | 1Ø3.71 | 622 | 5Ø.43 | 16.94 | 19.64 | 16.39 | 2Ø.5Ø | 34.6Ø | 11.38 | 4.99 AMP |
| | | | | 339.62 | 136.88 | 277.16 | 37.8Ø | 2.21 | 4.3Ø | 326.31 | 17.Ø8 PHASE |
| 243 | 17.74 | 115.97 | 622 | 71.79 | 22.ØØ | 26.43 | 17.2Ø | 16.ØØ | 34.62 | 13.58 | 5.12 AMP |
| | | | | 346.64 | 144.58 | 266.14 | .Ø4 | 318.59 | 333.84 | 29Ø.47 | 3Ø5.29 PHASE |
| 244 | 3Ø.91 | 38.75 | 621 | 16.51 | 4.23 | 4.54 | 4.34 | 6.46 | 8.69 | 3.31 | .52 AMP |
| | | | | 263.85 | 88.13 | 258.Ø1 | 53.95 | 7.29 | 258.61 | 35.35 | 293.Ø7 PHASE |
| 245 | 29.24 | 56.42 | 622 | 22.56 | 6.95 | 6.26 | 7.48 | 3.47 | 27.26 | 2.86 | 1.58 AMP |
| | | | | 287.38 | 113.81 | 291.Ø4 | 74.97 | 34Ø.31 | 272.88 | 34.53 | 86.57 PHASE |
| 246 | 27.5Ø | 64.53 | 622 | 27.26 | 1Ø.13 | 5.92 | 8.89 | 8.51 | 33.56 | 5.91 | 2.25 AMP |
| | | | | 295.82 | 113.88 | 28Ø.8Ø | 63.27 | 289.35 | 277.82 | 15.36 | 94.21 PHASE |
| 247 | 25.18 | 73.13 | 622 | 33.44 | 12.87 | 6.87 | 9.71 | 13.42 | 34.13 | 3.52 | 2.18 AMP |
| | | | | 31Ø.89 | 12Ø.54 | 279.45 | 75.68 | 312.77 | 313.89 | 41.24 | 114.44 PHASE |
| 248 | 22.73 | 81.46 | 622 | 41.86 | 14.74 | 9.78 | 1Ø.22 | 17.13 | 33.46 | 1.28 | 2.77 AMP |
| | | | | 316.41 | 12Ø.58 | 274.12 | 58.95 | 32Ø.57 | 319.33 | 341.35 | 76.85 PHASE |
| 249 | 18.51 | 99.77 | 622 | 51.64 | 17.82 | 14.ØØ | 11.59 | 21.Ø6 | 32.Ø3 | 11.11 | 3.Ø4 AMP |
| | | | | 329.74 | 125.85 | 288.92 | 46.16 | 348.49 | 33Ø.4Ø | 273.56 | 45.56 PHASE |
| 25Ø | 15.Ø3 | 1Ø5.46 | 622 | 61.84 | 19.55 | 19.61 | 12.24 | 21.46 | 29.82 | 14.62 | 4.Ø1 AMP |
| | | | | 338.14 | 133.21 | 282.46 | 23.93 | 336.Ø7 | 316.ØØ | 263.89 | 35.26 PHASE |

TABLE VII.- Continued

(c) Continued

| TORSION 5# PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 1# | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 213 | 2.67 | 6.99 | 623 | 5.65 | .61 | .31 | .88 | .82 | .38 | .34 | .11 | AMP |
| | | | | 347.45 | 113.95 | 343.11 | 249.85 | 387.85 | 83.27 | 274.33 | 123.82 | PHASE |
| 214 | 1.28 | 7.17 | 622 | 6.88 | .48 | .23 | .79 | .79 | .28 | .48 | .11 | AMP |
| | | | | 358.38 | 109.68 | 348.58 | 241.87 | 385.14 | 69.88 | 271.84 | 158.83 | PHASE |
| 215 | -5.4 | 7.84 | 622 | 6.67 | .35 | .11 | .92 | .78 | .22 | .52 | .81 | AMP |
| | | | | 355.75 | 107.39 | 385.87 | 248.61 | 295.11 | 92.15 | 258.78 | 358.38 | PHASE |
| 216 | -2.34 | 9.84 | 623 | 7.44 | .45 | .28 | 1.21 | .32 | .54 | .12 | .12 | AMP |
| | | | | 356.64 | 96.62 | 217.71 | 226.93 | 287.11 | 78.16 | 226.39 | 134.71 | PHASE |
| 217 | -4.14 | 18.73 | 622 | 8.34 | .63 | .64 | 1.45 | 1.28 | .38 | .56 | .14 | AMP |
| | | | | 1.66 | 182.77 | 198.98 | 238.89 | 387.28 | 78.89 | 241.82 | 123.88 | PHASE |
| 218 | -6.27 | 12.92 | 622 | 9.75 | 1.82 | 1.22 | 1.73 | 1.58 | .39 | .53 | .12 | AMP |
| | | | | 4.77 | 188.47 | 196.22 | 247.21 | 321.71 | 39.33 | 268.38 | 147.37 | PHASE |
| 219 | -7.28 | 14.33 | 624 | 18.67 | 1.23 | 1.47 | 1.97 | 1.97 | .51 | .59 | .18 | AMP |
| | | | | 1.66 | 88.18 | 192.22 | 241.63 | 318.38 | 349.77 | 253.15 | 126.54 | PHASE |
| 228 | -8.54 | 15.88 | 621 | 11.85 | 1.42 | 1.63 | 2.85 | 2.13 | .61 | .73 | .83 | AMP |
| | | | | 6.7 | 88.58 | 198.93 | 251.86 | 316.39 | 324.88 | 257.45 | 282.68 | PHASE |
| 221 | 3.32 | 5.85 | 622 | 4.82 | .42 | .23 | .78 | .88 | .18 | .17 | .87 | AMP |
| | | | | 338.98 | 96.65 | 332.76 | 236.48 | 274.11 | 66.71 | 239.13 | 78.48 | PHASE |
| 222 | 1.68 | 6.28 | 621 | 5.23 | .38 | .19 | .71 | .74 | .18 | .21 | .18 | AMP |
| | | | | 358.88 | 118.73 | 351.28 | 239.56 | 287.26 | 76.85 | 271.83 | 97.67 | PHASE |
| 223 | .19 | 6.63 | 622 | 5.68 | .18 | .18 | .88 | .86 | .14 | .32 | .88 | AMP |
| | | | | 354.41 | 112.82 | 343.36 | 239.38 | 278.31 | 69.71 | 255.29 | 63.93 | PHASE |
| 224 | -1.61 | 7.37 | 622 | 6.48 | .15 | .85 | 1.82 | 1.82 | .13 | .41 | .83 | AMP |
| | | | | 359.67 | 112.24 | 251.94 | 236.78 | 283.68 | 88.28 | 245.86 | 117.85 | PHASE |
| 225 | -3.89 | 8.21 | 623 | 5.98 | .17 | .17 | 1.28 | 1.15 | .15 | .42 | .84 | AMP |
| | | | | 357.15 | 117.29 | 188.11 | 213.38 | 258.34 | 78.14 | 282.47 | 64.83 | PHASE |
| 226 | -4.86 | 9.57 | 621 | 7.93 | .36 | .53 | 1.41 | 1.18 | .28 | .39 | .82 | AMP |
| | | | | 4.62 | 141.66 | 189.67 | 233.85 | 292.59 | 97.71 | 223.75 | 263.89 | PHASE |
| 227 | -5.98 | 18.68 | 621 | 8.57 | .56 | .82 | 1.47 | 1.17 | .41 | .48 | .85 | AMP |
| | | | | 5.89 | 129.53 | 188.41 | 232.15 | 298.18 | 81.86 | 287.77 | 275.39 | PHASE |
| 228 | -6.75 | 12.16 | 615 | 9.19 | .79 | 1.17 | 1.53 | 1.28 | .41 | .45 | .12 | AMP |
| | | | | 3.86 | 119.27 | 179.66 | 223.22 | 296.82 | 55.18 | 288.84 | 299.28 | PHASE |
| 236 | 4.87 | 7.22 | 622 | 5.29 | 1.28 | .52 | .95 | 1.11 | .89 | .27 | .28 | AMP |
| | | | | 334.95 | 119.12 | 357.37 | 264.54 | 289.21 | 99.51 | 269.74 | 167.17 | PHASE |
| 237 | 3.31 | 7.32 | 622 | 5.54 | 1.84 | .61 | .86 | 1.11 | .87 | .33 | .18 | AMP |
| | | | | 343.42 | 123.92 | 7.83 | 274.63 | 294.41 | 29.84 | 263.85 | 288.55 | PHASE |
| 238 | 1.53 | 7.56 | 623 | 6.85 | .89 | .59 | .78 | 1.11 | .87 | .42 | .28 | AMP |
| | | | | 358.49 | 121.94 | 16.84 | 269.33 | 297.83 | 193.15 | 278.15 | 219.28 | PHASE |
| 239 | -3.3 | 8.16 | 623 | 6.75 | .77 | .46 | .95 | 1.24 | .12 | .53 | .19 | AMP |
| | | | | 351.34 | 185.76 | 4.16 | 254.83 | 271.87 | 224.94 | 257.82 | 288.46 | PHASE |
| 248 | -2.18 | 9.73 | 621 | 7.72 | .91 | .15 | 1.35 | 1.43 | .12 | .57 | .19 | AMP |
| | | | | 357.16 | 98.47 | 18.61 | 256.86 | 298.48 | 279.99 | 284.85 | 283.88 | PHASE |
| 241 | -4.29 | 11.48 | 622 | 9.81 | 1.87 | .39 | 1.82 | 1.61 | .38 | .63 | .33 | AMP |
| | | | | 359.88 | 88.38 | 217.91 | 254.85 | 282.22 | 297.85 | 287.25 | 182.74 | PHASE |
| 242 | -6.77 | 14.34 | 622 | 11.83 | 1.22 | 1.87 | 2.47 | 1.93 | .78 | .75 | .33 | AMP |
| | | | | 1.33 | 81.71 | 239.66 | 269.92 | 294.64 | 319.59 | 389.37 | 217.92 | PHASE |
| 243 | -9.98 | 17.69 | 622 | 14.36 | 1.15 | 2.34 | 3.15 | 2.68 | 1.84 | 1.52 | .57 | AMP |
| | | | | 351.43 | 32.54 | 258.89 | 265.83 | 269.49 | 273.67 | 278.94 | 261.23 | PHASE |
| 244 | 6.83 | 7.41 | 621 | 5.45 | 1.51 | .48 | .65 | 1.88 | .18 | .28 | .29 | AMP |
| | | | | 336.23 | 121.61 | 16.52 | 274.42 | 383.97 | 356.11 | 298.41 | 192.32 | PHASE |
| 245 | 3.51 | 7.61 | 622 | 5.89 | 1.19 | .38 | .59 | .83 | .12 | .35 | .23 | AMP |
| | | | | 347.91 | 132.91 | 4.66 | 287.94 | 384.77 | 1.43 | 272.48 | 217.84 | PHASE |
| 246 | 1.83 | 7.88 | 622 | 6.38 | 1.89 | .19 | .58 | .92 | .87 | .46 | .15 | AMP |
| | | | | 347.34 | 119.77 | 357.65 | 262.81 | 274.96 | 315.64 | 246.79 | 188.97 | PHASE |
| 247 | -1.11 | 8.92 | 622 | 7.19 | 1.85 | .17 | .72 | 1.87 | .28 | .49 | .21 | AMP |
| | | | | 351.91 | 188.32 | 182.56 | 254.75 | 278.53 | 267.91 | 274.57 | 186.29 | PHASE |
| 248 | -1.94 | 9.97 | 622 | 8.14 | 1.83 | .23 | 1.81 | 1.24 | .35 | .55 | .25 | AMP |
| | | | | 352.55 | 97.39 | 139.25 | 249.36 | 271.41 | 277.31 | 268.73 | 198.83 | PHASE |
| 249 | -4.51 | 12.44 | 622 | 18.85 | 1.31 | .46 | 1.45 | 1.52 | .49 | .58 | .33 | AMP |
| | | | | 354.81 | 76.93 | 198.11 | 263.17 | 288.88 | 317.69 | 274.89 | 188.46 | PHASE |
| 258 | -7.38 | 14.64 | 622 | 12.55 | 1.45 | 1.89 | 1.89 | 1.37 | .54 | .53 | .37 | AMP |
| | | | | 351.34 | 44.92 | 264.27 | 285.88 | 294.18 | 336.86 | 247.81 | 167.84 | PHASE |

TABLE VII.- Continued

(c) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | -4.9 | 22.65 | 623 | 16.27 | 5.79 | 3.57 | 1.66 | 3.55 | .48 | 1.82 | 1.32 AMP |
| | | | | 139.56 | 318.51 | 313.38 | 138.33 | 239.82 | 55.15 | 286.28 | 33.23 PHASE |
| 214 | 1.18 | 22.99 | 622 | 16.92 | 5.98 | 4.84 | 1.41 | 3.35 | .42 | 1.83 | .84 AMP |
| | | | | 139.85 | 313.57 | 316.26 | 119.12 | 237.14 | 42.18 | 197.15 | 16.93 PHASE |
| 215 | 2.84 | 25.85 | 622 | 18.38 | 6.82 | 4.58 | 1.38 | 3.38 | .54 | 2.81 | .97 AMP |
| | | | | 142.49 | 311.54 | 323.73 | 112.18 | 234.71 | 59.89 | 199.42 | 352.84 PHASE |
| 216 | 4.36 | 28.14 | 623 | 19.71 | 7.88 | 4.38 | 1.14 | 3.79 | .57 | 2.84 | .58 AMP |
| | | | | 148.98 | 388.29 | 328.12 | 81.32 | 228.93 | 38.72 | 174.43 | 343.41 PHASE |
| 217 | 6.16 | 29.85 | 622 | 21.15 | 8.33 | 4.75 | .85 | 4.35 | .68 | 1.98 | .39 AMP |
| | | | | 143.86 | 388.38 | 327.52 | 66.85 | 236.49 | 43.78 | 176.43 | 358.37 PHASE |
| 218 | 8.18 | 32.25 | 622 | 22.76 | 8.96 | 5.81 | 1.35 | 4.56 | .82 | 1.98 | .39 AMP |
| | | | | 145.48 | 298.98 | 331.57 | 38.92 | 254.26 | 28.97 | 176.99 | 189.57 PHASE |
| 219 | 8.68 | 33.28 | 624 | 23.47 | 9.39 | 4.85 | 1.72 | 4.75 | 1.88 | 2.41 | .92 AMP |
| | | | | 142.89 | 292.48 | 328.15 | 15.97 | 249.39 | 11.44 | 151.88 | 122.88 PHASE |
| 228 | 9.39 | 33.97 | 621 | 24.33 | 9.72 | 4.98 | 2.11 | 4.78 | .95 | 2.53 | 1.32 AMP |
| | | | | 142.71 | 291.38 | 316.36 | 18.74 | 259.69 | 2.51 | 148.98 | 126.78 PHASE |
| 221 | -4.8 | 17.84 | 622 | 13.82 | 3.93 | 3.82 | 1.38 | 3.46 | .58 | .87 | .89 AMP |
| | | | | 135.88 | 322.24 | 381.71 | 144.88 | 199.58 | 85.69 | 168.53 | 348.77 PHASE |
| 222 | 1.17 | 28.24 | 621 | 14.88 | 4.85 | 3.85 | 1.48 | 3.25 | .38 | .94 | .84 AMP |
| | | | | 141.84 | 328.27 | 319.54 | 133.61 | 215.11 | 88.45 | 195.81 | 4.81 PHASE |
| 223 | 2.75 | 21.96 | 622 | 15.74 | 5.35 | 4.21 | 1.54 | 3.56 | .38 | 1.81 | .89 AMP |
| | | | | 142.63 | 316.36 | 324.56 | 124.58 | 285.65 | 75.46 | 193.58 | 346.42 PHASE |
| 224 | 4.54 | 24.78 | 622 | 17.11 | 6.29 | 4.79 | 1.67 | 4.12 | .48 | 1.84 | .77 AMP |
| | | | | 144.99 | 313.72 | 335.58 | 111.28 | 211.84 | 75.58 | 182.79 | 341.88 PHASE |
| 225 | 6.11 | 26.42 | 623 | 18.17 | 6.98 | 5.38 | 1.74 | 4.58 | .35 | .98 | .82 AMP |
| | | | | 148.93 | 388.72 | 324.16 | 82.69 | 187.51 | 41.46 | 136.29 | 298.15 PHASE |
| 226 | 7.95 | 29.51 | 621 | 19.82 | 7.87 | 5.88 | 1.93 | 4.52 | .39 | .93 | .94 AMP |
| | | | | 146.68 | 386.59 | 341.98 | 99.89 | 215.98 | 55.84 | 145.35 | 288.44 PHASE |
| 227 | 8.85 | 38.54 | 621 | 28.76 | 8.48 | 6.21 | 2.83 | 4.56 | .45 | 1.28 | .77 AMP |
| | | | | 145.93 | 388.27 | 348.27 | 84.77 | 213.14 | 51.77 | 132.15 | 264.72 PHASE |
| 228 | 9.63 | 31.57 | 615 | 21.71 | 8.73 | 6.87 | 2.82 | 4.32 | .41 | 1.33 | .97 AMP |
| | | | | 143.13 | 293.59 | 335.17 | 67.45 | 213.15 | 16.82 | 123.41 | 264.77 PHASE |
| 236 | -4.23 | 22.86 | 622 | 15.68 | 5.68 | 3.28 | 2.35 | 4.86 | .41 | 2.22 | .88 AMP |
| | | | | 133.95 | 315.92 | 287.36 | 149.16 | 216.95 | 329.54 | 222.68 | 78.24 PHASE |
| 237 | -2.76 | 24.24 | 622 | 16.58 | 6.89 | 3.53 | 1.86 | 4.65 | .46 | 2.48 | .77 AMP |
| | | | | 139.19 | 315.28 | 381.52 | 164.81 | 228.58 | 291.29 | 236.55 | 181.32 PHASE |
| 238 | -1.87 | 25.63 | 623 | 17.65 | 6.78 | 3.67 | 1.38 | 4.57 | .35 | 2.33 | 1.18 AMP |
| | | | | 143.15 | 312.56 | 311.42 | 164.44 | 248.68 | 384.11 | 238.29 | 285.71 PHASE |
| 239 | .68 | 27.72 | 623 | 19.11 | 7.16 | 3.47 | 1.18 | 4.42 | .41 | 2.69 | 1.62 AMP |
| | | | | 141.43 | 383.63 | 389.45 | 148.98 | 221.89 | 271.32 | 228.14 | 184.53 PHASE |
| 248 | 2.44 | 38.13 | 621 | 28.61 | 7.71 | 3.53 | .78 | 4.25 | .58 | 2.57 | 1.59 AMP |
| | | | | 144.73 | 386.28 | 322.33 | 156.38 | 238.33 | 269.72 | 239.13 | 188.21 PHASE |
| 241 | 4.29 | 32.98 | 622 | 22.23 | 8.82 | 2.78 | .67 | 3.15 | .55 | 2.81 | 2.91 AMP |
| | | | | 145.86 | 383.99 | 328.49 | 125.43 | 231.31 | 319.78 | 226.38 | 161.13 PHASE |
| 242 | 6.83 | 34.28 | 622 | 24.28 | 8.52 | 1.92 | 1.22 | 1.32 | .37 | 3.82 | 3.45 AMP |
| | | | | 147.98 | 389.81 | 327.34 | 188.94 | 235.56 | 34.35 | 238.94 | 182.29 PHASE |
| 243 | 7.42 | 36.42 | 622 | 25.99 | 9.78 | 1.88 | 3.89 | 1.38 | .86 | 3.52 | 4.83 AMP |
| | | | | 141.35 | 299.78 | 253.49 | 73.16 | 89.22 | 69.65 | 193.46 | 158.18 PHASE |
| 244 | -7.81 | 24.24 | 621 | 15.29 | 6.92 | 2.59 | 1.78 | 4.67 | .14 | 2.81 | 1.78 AMP |
| | | | | 134.79 | 315.19 | 387.43 | 179.87 | 223.33 | 311.94 | 245.94 | 153.11 PHASE |
| 245 | -4.38 | 25.63 | 622 | 16.74 | 7.37 | 1.98 | 1.77 | 4.34 | .19 | 2.87 | 1.42 AMP |
| | | | | 141.97 | 316.68 | 336.36 | 194.89 | 231.47 | 189.44 | 255.78 | 189.43 PHASE |
| 246 | -2.66 | 26.66 | 622 | 17.91 | 7.77 | 1.88 | 1.68 | 4.45 | .22 | 1.88 | .63 AMP |
| | | | | 139.42 | 385.37 | 331.52 | 188.11 | 287.48 | 123.17 | 227.89 | 167.96 PHASE |
| 247 | -8.6 | 28.48 | 622 | 19.25 | 7.98 | 1.98 | 1.44 | 4.25 | .16 | 1.88 | 1.82 AMP |
| | | | | 142.65 | 386.28 | 343.57 | 188.72 | 289.21 | 113.35 | 248.66 | 178.43 PHASE |
| 248 | 1.84 | 38.47 | 622 | 21.82 | 7.99 | 2.88 | 1.38 | 3.53 | .15 | 1.98 | 1.44 AMP |
| | | | | 142.14 | 383.32 | 343.74 | 171.77 | 286.88 | 5.58 | 239.98 | 182.22 PHASE |
| 249 | 2.94 | 32.55 | 622 | 23.83 | 8.49 | 1.76 | .88 | 2.58 | .49 | 1.99 | 2.71 AMP |
| | | | | 144.17 | 382.43 | 347.75 | 159.65 | 193.85 | 58.97 | 226.33 | 164.16 PHASE |
| 258 | 4.82 | 33.59 | 622 | 25.84 | 9.32 | 1.25 | 1.28 | 1.65 | .81 | 2.83 | 2.75 AMP |
| | | | | 143.88 | 388.88 | 299.91 | 91.87 | 129.92 | 94.79 | 285.85 | 162.98 PHASE |

TABLE VII.- Continued

(c) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 213 | 23.37 | 17.96 | 623 | 4.76 | 2.37 | 3.49 | 2.78 | 4.88 | 4.68 | 1.29 | 1.19 | AMP |
| 214 | 24.94 | 28.14 | 622 | 175.36 | 338.67 | 311.68 | 46.15 | 278.11 | 294.28 | 343.18 | 83.48 | PHASE |
| 215 | 27.28 | 19.58 | 622 | 4.88 | 2.38 | 4.89 | 3.85 | 4.44 | 4.67 | 1.46 | 1.15 | AMP |
| 216 | 28.64 | 27.39 | 623 | 186.69 | 327.81 | 384.44 | 32.87 | 278.68 | 295.73 | 2.88 | 72.52 | PHASE |
| 217 | 29.95 | 33.98 | 622 | 3.13 | 2.58 | 5.84 | 5.11 | 4.11 | 5.83 | .51 | 1.84 | AMP |
| 218 | 31.34 | 34.83 | 622 | 213.58 | 327.68 | 384.94 | 32.84 | 285.55 | 276.14 | 278.48 | 72.32 | PHASE |
| 219 | 32.28 | 33.72 | 624 | 2.78 | 2.68 | 6.11 | 6.17 | 5.81 | 9.34 | 2.24 | 1.78 | AMP |
| 220 | 32.96 | 34.18 | 621 | 249.58 | 315.69 | 295.83 | 21.82 | 269.89 | 269.56 | 258.13 | 71.85 | PHASE |
| 221 | 26.88 | 28.31 | 622 | 4.28 | 2.94 | 7.69 | 6.93 | 6.88 | 11.38 | 2.85 | 1.55 | AMP |
| 222 | 25.23 | 17.46 | 621 | 283.75 | 318.96 | 298.85 | 25.42 | 279.44 | 382.57 | 261.75 | 88.76 | PHASE |
| 223 | 27.37 | 28.69 | 622 | 6.42 | 2.82 | 8.88 | 7.44 | 6.59 | 11.85 | 3.36 | .95 | AMP |
| 224 | 29.87 | 22.59 | 622 | 383.78 | 321.51 | 296.99 | 21.86 | 285.81 | 328.39 | 269.69 | 182.96 | PHASE |
| 225 | 38.34 | 27.81 | 623 | 6.62 | 2.14 | 8.84 | 6.68 | 7.27 | 8.98 | 3.58 | .95 | AMP |
| 226 | 31.19 | 38.89 | 621 | 318.13 | 317.12 | 288.64 | 3.28 | 261.31 | 312.45 | 269.34 | 61.76 | PHASE |
| 227 | 31.71 | 31.78 | 621 | 7.14 | .94 | 9.68 | 6.82 | 8.78 | 7.69 | 3.15 | .81 | AMP |
| 228 | 31.74 | 36.88 | 615 | 322.89 | 386.67 | 269.92 | 352.61 | 244.56 | 381.68 | 386.75 | 74.48 | PHASE |
| 229 | 23.68 | 24.84 | 623 | 5.38 | 1.78 | 2.91 | 2.28 | 2.88 | 4.88 | 1.67 | 1.81 | AMP |
| 230 | 24.63 | 27.14 | 623 | 163.83 | 316.77 | 388.56 | 42.54 | 281.47 | 241.97 | 336.95 | 43.59 | PHASE |
| 231 | 25.16 | 29.29 | 621 | 3.94 | 2.89 | 3.51 | 3.56 | 2.88 | 5.88 | .77 | .77 | AMP |
| 232 | 25.71 | 38.61 | 622 | 163.56 | 324.99 | 318.87 | 45.38 | 266.35 | 299.83 | 43.47 | 83.27 | PHASE |
| 233 | 26.57 | 41.35 | 622 | 2.73 | 2.15 | 4.28 | 4.53 | 2.37 | 6.75 | .99 | .99 | AMP |
| 234 | 27.23 | 47.48 | 622 | 174.54 | 323.65 | 386.78 | 41.72 | 265.59 | 282.92 | 221.98 | 78.81 | PHASE |
| 235 | 28.18 | 19.28 | 621 | 1.32 | 2.75 | 5.63 | 5.94 | 2.83 | 8.41 | 2.34 | 1.85 | AMP |
| 236 | 28.86 | 19.48 | 622 | 284.87 | 328.13 | 389.83 | 39.71 | 255.73 | 284.48 | 261.24 | 99.84 | PHASE |
| 237 | 21.95 | 28.48 | 622 | 1.67 | 3.85 | 6.62 | 7.24 | 3.29 | 18.26 | 3.12 | .89 | AMP |
| 238 | 23.68 | 24.84 | 623 | 262.84 | 389.86 | 292.19 | 14.69 | 219.75 | 262.69 | 222.46 | 42.58 | PHASE |
| 239 | 24.63 | 27.14 | 623 | 3.86 | 3.62 | 8.47 | 8.82 | 4.21 | 18.31 | 3.41 | .88 | AMP |
| 240 | 25.16 | 29.29 | 621 | 385.61 | 316.84 | 384.78 | 28.81 | 234.67 | 298.75 | 266.84 | 76.54 | PHASE |
| 241 | 25.71 | 38.61 | 622 | 4.94 | 3.95 | 9.32 | 8.78 | 4.96 | 9.45 | 3.59 | .82 | AMP |
| 242 | 26.57 | 41.35 | 622 | 313.53 | 313.34 | 299.93 | 17.35 | 228.85 | 291.51 | 278.78 | 35.14 | PHASE |
| 243 | 27.23 | 47.48 | 622 | 5.78 | 4.81 | 9.75 | 8.18 | 6.89 | 11.38 | 3.44 | .92 | AMP |
| 244 | 28.18 | 19.28 | 621 | 318.65 | 386.61 | 298.86 | 355.91 | 212.48 | 295.29 | 289.94 | 323.49 | PHASE |
| 245 | 28.99 | 27.99 | 622 | 6.61 | 2.55 | 3.88 | 1.92 | 1.26 | 2.47 | .84 | .88 | AMP |
| 246 | 21.98 | 38.34 | 622 | 165.34 | 323.62 | 286.53 | 74.96 | 298.29 | 288.45 | 316.39 | 83.61 | PHASE |
| 247 | 22.76 | 31.97 | 622 | 5.94 | 2.58 | 3.98 | 2.27 | 2.53 | 9.88 | 1.15 | .83 | AMP |
| 248 | 23.51 | 32.13 | 622 | 181.74 | 327.96 | 297.69 | 68.99 | 268.17 | 237.96 | 287.48 | 184.21 | PHASE |
| 249 | 23.47 | 43.34 | 622 | 5.83 | 2.39 | 3.87 | 3.12 | 4.64 | 8.56 | 2.87 | 1.25 | AMP |
| 250 | 23.83 | 58.91 | 622 | 288.51 | 336.68 | 386.53 | 51.95 | 276.76 | 261.86 | 357.68 | 139.71 | PHASE |
| | | | | 4.81 | 2.21 | 4.16 | 4.15 | 4.19 | 11.61 | 1.86 | 1.78 | AMP |
| | | | | 4.82 | 334.22 | 297.34 | 42.22 | 271.36 | 283.89 | 337.87 | 124.79 | PHASE |
| | | | | 254.76 | 339.11 | 387.92 | 48.74 | 381.58 | 324.23 | 337.72 | 134.17 | PHASE |
| | | | | 4.94 | 2.36 | 5.67 | 5.95 | 6.19 | 15.78 | 2.98 | 2.28 | AMP |
| | | | | 284.71 | 341.88 | 387.94 | 42.66 | 321.88 | 331.16 | 292.85 | 134.51 | PHASE |
| | | | | 6.18 | 2.86 | 5.83 | 6.37 | 7.37 | 15.11 | 3.64 | 1.17 | AMP |
| | | | | 313.23 | 358.88 | 383.16 | 44.58 | 353.21 | 1.85 | 299.11 | 167.59 | PHASE |
| | | | | 8.87 | 1.86 | 7.82 | 6.85 | 6.26 | 15.18 | 4.56 | 2.84 | AMP |
| | | | | 338.26 | 381.53 | 269.98 | 14.65 | 328.86 | 333.26 | 268.32 | 192.97 | PHASE |
| | | | | 7.82 | 3.18 | 2.45 | 1.33 | 2.85 | 3.51 | .61 | 1.84 | AMP |
| | | | | 172.74 | 327.79 | 291.89 | 98.78 | 262.61 | 258.68 | 332.28 | 156.85 | PHASE |
| | | | | 6.27 | 2.73 | 2.75 | 2.45 | 2.92 | 18.85 | .68 | 1.26 | AMP |
| | | | | 192.66 | 338.54 | 322.56 | 96.51 | 251.87 | 264.58 | 332.31 | 146.85 | PHASE |
| | | | | 5.53 | 2.38 | 2.77 | 3.11 | 4.58 | 13.19 | 1.98 | 1.68 | AMP |
| | | | | 199.36 | 324.37 | 321.28 | 78.19 | 241.28 | 278.87 | 2.28 | 189.21 | PHASE |
| | | | | 4.55 | 2.87 | 3.89 | 3.67 | 4.88 | 13.46 | 1.17 | 2.18 | AMP |
| | | | | 218.35 | 334.48 | 338.34 | 83.76 | 271.38 | 388.41 | 39.86 | 131.56 | PHASE |
| | | | | 4.33 | 2.13 | 3.96 | 4.18 | 5.41 | 13.53 | .89 | 2.11 | AMP |
| | | | | 246.81 | 348.28 | 324.28 | 67.31 | 291.63 | 315.33 | 256.71 | 119.99 | PHASE |
| | | | | 5.18 | 2.68 | 4.88 | 4.88 | 6.16 | 13.12 | 4.11 | 2.61 | AMP |
| | | | | 291.86 | 352.83 | 326.38 | 54.85 | 348.39 | 388.51 | 258.85 | 118.65 | PHASE |
| | | | | 8.11 | 3.94 | 6.38 | 5.66 | 7.86 | 11.18 | 6.12 | 2.78 | AMP |
| | | | | 315.12 | 346.46 | 311.58 | 33.28 | 343.81 | 318.72 | 236.82 | 117.82 | PHASE |

TABLE VII.- Continued

(c) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | -7.75 | 4.89 | 623 | 337.84 | 128.14 | 51.56 | 287.82 | 316.21 | 113.27 | 28.18 | 244.82 |
| 214 | -1.98 | 5.23 | 622 | 342.71 | 134.57 | 182.29 | 275.62 | 318.18 | 187.88 | 5.37 | 266.21 |
| 215 | -3.48 | 5.95 | 622 | 358.48 | 145.72 | 147.68 | 263.83 | 299.35 | 83.49 | 18.38 | 283.85 |
| 216 | -4.89 | 6.61 | 623 | 353.42 | 144.86 | 163.59 | 236.14 | 286.85 | 43.59 | 359.67 | 242.33 |
| 217 | -6.28 | 7.35 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 218 | -7.74 | 7.91 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 219 | -8.36 | 8.11 | 624 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 220 | -9.86 | 8.71 | 621 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 221 | .42 | 3.84 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 222 | -1.12 | 4.14 | 621 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 223 | -2.44 | 4.88 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 224 | -4.84 | 5.36 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 225 | -5.34 | 5.96 | 623 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 226 | -6.84 | 7.16 | 621 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 227 | -7.67 | 7.57 | 621 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 228 | -8.22 | 7.93 | 615 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 236 | 1.29 | 5.18 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 237 | -.88 | 5.22 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 238 | -1.67 | 5.42 | 623 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 239 | -3.22 | 5.83 | 623 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 240 | -4.62 | 6.48 | 621 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 241 | -6.18 | 6.84 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 242 | -7.56 | 8.83 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 243 | -9.17 | 18.15 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 244 | 2.27 | 5.53 | 621 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 245 | -.88 | 5.68 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 246 | -1.45 | 5.65 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 247 | -2.92 | 5.89 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 248 | -4.24 | 6.18 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 249 | -5.67 | 7.88 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |
| 250 | -7.89 | 8.32 | 622 | 359.63 | 153.97 | 178.86 | 241.17 | 381.28 | 46.18 | 355.39 | 262.75 |

TABLE VII.- Continued

(c) Concluded

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 1# | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 213 | -5.50 | 8.66 | 623 | 5.38 | .24 | .82 | 1.14 | 1.17 | .13 | .9# | .#8 AMP |
| 214 | .75 | 9.46 | 622 | 18#.#2 | 274.75 | 153.96 | 68.36 | 147.36 | 165.66 | 49.11 | 166.55 PHASE |
| 215 | 2.21 | 11.## | 622 | 6.11 | .14 | .76 | 1.21 | 1.2# | .2# | .89 | .22 AMP |
| 216 | 3.81 | 12.92 | 623 | 185.35 | 232.17 | 147.93 | 63.4# | 144.39 | 12#.#1 | 31.79 | 57.55 PHASE |
| 217 | 5.56 | 14.59 | 622 | 7.#1 | .24 | .76 | 1.33 | 1.23 | .11 | 1.13 | .#8 AMP |
| 218 | 7.68 | 18.9# | 622 | 189.96 | 219.93 | 126.99 | 61.53 | 14#.#5 | 88.55 | 38.57 | 24.#1 PHASE |
| 219 | 8.72 | 21.53 | 624 | 8.6# | .49 | .83 | 1.55 | 1.29 | .31 | 1.13 | .#8 AMP |
| 22# | 18.#9 | 24.4# | 621 | 188.#4 | 245.81 | 82.32 | 53.57 | 127.76 | 67.39 | 16.73 | 3#3.53 PHASE |
| 221 | -7.72 | 5.51 | 622 | 1#.#4 | .75 | 1.33 | 1.68 | 1.65 | .28 | .96 | .#5 AMP |
| 222 | .65 | 6.87 | 621 | 193.56 | 266.68 | 58.88 | 64.97 | 138.71 | 97.16 | 27.## | 328.41 PHASE |
| 223 | 2.## | 8.39 | 622 | 13.1# | 1.42 | 2.2# | 2.## | 2.12 | .58 | .76 | .23 AMP |
| 224 | 3.48 | 9.65 | 622 | 196.71 | 274.14 | 45.96 | 69.98 | 14#.#2 | 133.43 | 23.96 | 39.49 PHASE |
| 225 | 4.76 | 18.69 | 623 | 14.85 | 1.76 | 2.77 | 2.27 | 2.52 | .83 | .73 | .23 AMP |
| 226 | 6.35 | 13.## | 621 | 193.86 | 261.87 | 36.4# | 63.79 | 125.3# | 122.73 | 3.92 | 25.26 PHASE |
| 227 | 7.26 | 14.95 | 621 | 16.99 | 2.25 | 3.57 | 2.41 | 2.41 | .92 | .76 | .24 AMP |
| 228 | 8.#1 | 17.## | 615 | 192.38 | 261.#1 | 41.71 | 71.96 | 122.94 | 1#.#5 | 14.26 | 56.89 PHASE |
| 236 | -3.92 | 8.#4 | 622 | 3.74 | .87 | .98 | .84 | 1.22 | .#6 | .48 | .#8 AMP |
| 237 | -2.54 | 9.55 | 622 | 177.3# | 82.49 | 132.55 | 54.1# | 122.62 | 68.#6 | 16.12 | 112.64 PHASE |
| 238 | -.94 | 11.## | 623 | 4.54 | .23 | 1.## | .9# | 1.19 | .19 | .5# | .16 AMP |
| 239 | .75 | 12.17 | 623 | 182.49 | 127.19 | 16#.#2 | 59.#6 | 131.#2 | 118.76 | 37.32 | 95.66 PHASE |
| 24# | 2.57 | 14.## | 621 | 5.51 | .41 | .95 | .94 | 1.4# | .24 | .64 | .2# AMP |
| 241 | 4.8# | 17.42 | 622 | 187.16 | 136.91 | 152.2# | 63.79 | 124.85 | 97.42 | 48.66 | 77.64 PHASE |
| 242 | 7.37 | 22.19 | 622 | 6.73 | .51 | .76 | 1.2# | 1.5# | .31 | .69 | .21 AMP |
| 243 | 11.15 | 38.79 | 622 | 192.#1 | 129.85 | 136.78 | 65.83 | 124.38 | 69.54 | 37.## | 76.#4 PHASE |
| 244 | -5.47 | 8.68 | 621 | 7.8# | .49 | .61 | 1.36 | 1.69 | .34 | .58 | .24 AMP |
| 245 | -3.21 | 18.27 | 622 | 19#.#9 | 119.78 | 96.64 | 39.## | 96.31 | 22.4# | .#7 | 41.74 PHASE |
| 246 | -1.57 | 11.78 | 622 | 9.17 | .25 | 1.#1 | 1.74 | 1.92 | .32 | .57 | .42 AMP |
| 247 | .4# | 13.84 | 622 | 199.58 | 14#.#7 | 61.83 | 6#.#7 | 132.29 | 39.86 | 359.69 | 62.78 PHASE |
| 248 | 2.3# | 15.75 | 622 | 1#.#4 | .28 | 1.52 | 1.91 | 2.## | .28 | .6# | .39 AMP |
| 249 | 5.12 | 28.52 | 622 | 198.92 | 216.89 | 4#.#1 | 62.61 | 13#.#4 | 356.61 | 339.93 | 48.61 PHASE |
| 25# | 8.33 | 25.## | 622 | 11.82 | .5# | 2.21 | 2.16 | 2.19 | .1# | .42 | .41 AMP |
| | | | | 196.89 | 242.82 | 25.4# | 54.9# | 115.23 | 281.89 | 32#.#8 | 51.11 PHASE |
| | | | | 5.87 | .89 | .59 | 1.16 | 1.32 | .24 | .98 | .27 AMP |
| | | | | 169.39 | 294.63 | 177.81 | 84.82 | 126.55 | 189.58 | 52.24 | 285.23 PHASE |
| | | | | 6.29 | .77 | .77 | 1.11 | 1.35 | .36 | 1.16 | .38 AMP |
| | | | | 176.84 | 289.#1 | 187.15 | 98.47 | 132.85 | 115.86 | 64.94 | 349.35 PHASE |
| | | | | 6.86 | .82 | .69 | 1.13 | 1.44 | .34 | 1.#7 | .65 AMP |
| | | | | 183.54 | 278.88 | 191.21 | 89.38 | 141.38 | 95.89 | 64.26 | 19.92 PHASE |
| | | | | 8.#5 | .97 | .56 | 1.17 | 1.63 | .56 | 1.29 | .72 AMP |
| | | | | 182.1# | 264.44 | 165.84 | 79.8# | 11#.#6 | 72.45 | 54.63 | 351.#1 PHASE |
| | | | | 9.47 | 1.27 | .43 | 1.52 | 1.91 | .76 | 1.18 | .7# AMP |
| | | | | 189.38 | 27#.#8 | 12#.#1 | 79.48 | 121.75 | 118.#1 | 71.69 | .95 PHASE |
| | | | | 11.98 | 1.72 | .99 | 1.74 | 2.5# | .81 | 1.26 | .98 AMP |
| | | | | 198.92 | 276.83 | 78.29 | 72.71 | 186.46 | 119.39 | 65.22 | 346.88 PHASE |
| | | | | 15.33 | 2.82 | 2.87 | 2.19 | 3.36 | .98 | 1.36 | .87 AMP |
| | | | | 194.62 | 285.77 | 83.5# | 84.## | 116.65 | 143.31 | 85.54 | 6.88 PHASE |
| | | | | 21.#1 | 1.67 | 4.82 | 2.24 | 4.48 | 2.23 | 2.57 | .37 AMP |
| | | | | 187.67 | 283.8# | 77.26 | 77.63 | 75.11 | 84.75 | 71.9# | 22.88 PHASE |
| | | | | 6.82 | 1.13 | .2# | .79 | 1.4# | .54 | .91 | .59 AMP |
| | | | | 17#.#2 | 294.7# | 255.69 | 95.48 | 145.## | 138.24 | 74.9# | 348.95 PHASE |
| | | | | 7.17 | .97 | .21 | .65 | 1.17 | .54 | 1.18 | .64 AMP |
| | | | | 18#.#6 | 388.#4 | 297.17 | 111.19 | 141.88 | 143.#4 | 86.22 | 15.1# PHASE |
| | | | | 8.15 | 1.17 | .2# | .58 | 1.31 | .56 | 1.25 | .59 AMP |
| | | | | 179.18 | 293.29 | 314.26 | 91.65 | 111.88 | 185.7# | 56.86 | 355.#1 PHASE |
| | | | | 9.63 | 1.42 | .24 | .46 | 1.71 | .8# | 1.25 | .72 AMP |
| | | | | 184.88 | 291.45 | 337.56 | 81.82 | 184.8# | 114.49 | 74.9# | 2.29 PHASE |
| | | | | 1#.#2 | 1.6# | .41 | .9# | 2.13 | .85 | 1.35 | .83 AMP |
| | | | | 186.66 | 288.68 | 24.83 | 69.24 | 185.1# | 117.79 | 62.94 | .65 PHASE |
| | | | | 14.11 | 2.15 | .76 | 1.21 | 2.9# | .8# | 1.52 | 1.1# AMP |
| | | | | 188.12 | 287.11 | 54.26 | 76.15 | 111.35 | 135.92 | 73.27 | 338.56 PHASE |
| | | | | 18.2# | 2.## | 2.84 | 1.54 | 3.29 | .49 | 1.69 | 1.48 AMP |
| | | | | 188.14 | 282.75 | 85.95 | 95.#1 | 112.56 | 142.72 | 68.26 | 324.29 PHASE |

TABLE VII.- Continued.

(d) $\mu = 0.30$; $M_T = 0.68$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 279 | -1.5 | 4.3 | .1 | .03555 | .00093 | .00134 |
| 280 | -1.6 | 5.5 | 2.1 | .04728 | .00072 | .00159 |
| 281 | -1.9 | 6.3 | 4.1 | .05886 | .00052 | .00189 |
| 282 | -2.3 | 7.4 | 6.0 | .06964 | .00008 | .00244 |
| 283 | -2.5 | 8.3 | 8.0 | .08031 | -.00016 | .00304 |
| 284 | -2.8 | 9.5 | 9.9 | .08986 | -.00084 | .00386 |
| 285 | -3.4 | 10.7 | 11.9 | .09759 | -.00183 | .00495 |
| 286 | -3.8 | 12.1 | 13.9 | .10400 | -.00291 | .00669 |
| 287 | -1.2 | 4.8 | 2.1 | .02774 | -.00156 | .00205 |
| 288 | -1.6 | 5.6 | 4.1 | .04059 | -.00282 | .00255 |
| 289 | -1.7 | 6.8 | 6.1 | .05100 | -.00405 | .00313 |
| 290 | -2.2 | 7.5 | 8.0 | .06236 | -.00523 | .00378 |
| 291 | -2.5 | 8.7 | 10.1 | .07408 | -.00676 | .00466 |
| 292 | -3.0 | 9.7 | 12.0 | .08424 | -.00825 | .00562 |
| 293 | -3.4 | 10.7 | 14.0 | .09376 | -.00977 | .00677 |
| 294 | -3.9 | 11.4 | 15.0 | .09715 | -.01085 | .00752 |
| 295 | -1.3 | 5.8 | 6.1 | .03457 | -.00543 | .00325 |
| 296 | -1.8 | 6.8 | 8.0 | .04463 | -.00736 | .00407 |
| 297 | -2.1 | 7.4 | 9.9 | .05722 | -.00957 | .00498 |
| 299 | -2.5 | 8.6 | 12.0 | .06757 | -.01184 | .00603 |
| 300 | -2.8 | 8.9 | 13.0 | .07355 | -.01299 | .00657 |
| 301 | -2.9 | 9.6 | 14.1 | .07986 | -.01420 | .00727 |

TABLE VII.- Continued

(d) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|---------------------|
| RUN NO 11 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P 8P |
| 279 | 47.67 | 13.78 | 653 | 4.98 | 3.62 | 1.25 | .59 | 5.53 | 2.15 | 2.31 .58 AMP |
| | | | | 143.54 | 315.17 | 9.35 | 357.69 | 58.66 | 331.61 | 246.27 56.57 PHASE |
| 280 | 48.83 | 14.38 | 654 | 5.35 | 3.99 | 1.96 | .56 | 5.68 | 1.96 | 2.24 .24 AMP |
| | | | | 139.14 | 309.59 | 1.22 | 351.96 | 29.67 | 309.92 | 217.27 51.91 PHASE |
| 281 | 50.86 | 13.78 | 653 | 5.67 | 4.49 | 2.48 | .52 | 5.68 | 1.72 | 2.11 .41 AMP |
| | | | | 141.83 | 328.18 | 24.38 | 16.85 | 55.45 | 336.31 | 249.88 169.31 PHASE |
| 282 | 51.16 | 14.33 | 653 | 5.96 | 4.87 | 2.88 | .49 | 5.19 | 1.54 | 2.29 .63 AMP |
| | | | | 136.76 | 319.12 | 24.16 | 16.42 | 51.76 | 322.13 | 243.89 183.97 PHASE |
| 283 | 52.12 | 14.64 | 652 | 6.33 | 5.17 | 3.52 | .62 | 4.73 | 1.47 | 2.37 .84 AMP |
| | | | | 126.91 | 313.38 | 13.73 | 24.88 | 31.98 | 292.64 | 214.89 158.61 PHASE |
| 284 | 53.89 | 15.83 | 653 | 6.51 | 5.47 | 3.55 | .78 | 3.37 | 1.48 | 2.92 1.59 AMP |
| | | | | 122.56 | 322.93 | 27.21 | 19.58 | 44.12 | 282.54 | 238.66 178.97 PHASE |
| 285 | 53.74 | 18.64 | 653 | 6.75 | 6.13 | 2.76 | .78 | 1.98 | 1.65 | 3.29 1.68 AMP |
| | | | | 185.81 | 317.84 | 11.38 | 298.48 | 358.47 | 235.13 | 193.18 144.12 PHASE |
| 286 | 54.81 | 21.66 | 653 | 7.57 | 7.83 | 1.77 | 1.81 | 2.24 | 1.86 | 3.33 1.61 AMP |
| | | | | 85.81 | 319.61 | 315.96 | 268.27 | 382.11 | 244.17 | 187.56 171.89 PHASE |
| 287 | 47.53 | 13.63 | 653 | 4.46 | 3.28 | 1.89 | .87 | 4.88 | 1.65 | 2.82 1.15 AMP |
| | | | | 141.37 | 315.86 | 358.72 | 327.57 | 51.88 | 317.85 | 212.15 13.83 PHASE |
| 288 | 48.88 | 14.41 | 652 | 4.61 | 3.64 | 2.63 | 1.22 | 4.74 | 1.55 | 2.12 .99 AMP |
| | | | | 143.25 | 323.66 | 7.84 | 316.95 | 63.94 | 323.88 | 227.38 38.11 PHASE |
| 289 | 50.24 | 14.61 | 653 | 5.85 | 4.83 | 3.11 | 1.43 | 4.65 | 1.44 | 2.88 .79 AMP |
| | | | | 136.98 | 315.87 | 356.71 | 292.68 | 43.43 | 287.57 | 187.95 349.92 PHASE |
| 290 | 51.49 | 14.57 | 654 | 5.19 | 4.27 | 3.29 | 1.58 | 4.68 | 1.45 | 2.38 .76 AMP |
| | | | | 138.98 | 313.87 | 356.25 | 282.68 | 33.57 | 281.88 | 178.87 328.88 PHASE |
| 291 | 52.83 | 15.28 | 653 | 5.67 | 4.57 | 3.57 | 1.56 | 5.86 | 1.28 | 2.58 .66 AMP |
| | | | | 135.88 | 327.76 | 28.71 | 384.65 | 74.87 | 311.71 | 228.78 27.25 PHASE |
| 292 | 53.99 | 14.78 | 653 | 6.82 | 4.39 | 3.59 | 1.68 | 5.36 | 1.82 | 2.76 .59 AMP |
| | | | | 118.68 | 325.28 | 11.86 | 288.89 | 62.67 | 275.73 | 193.98 13.23 PHASE |
| 293 | 55.89 | 15.68 | 654 | 6.47 | 4.54 | 3.25 | 1.95 | 5.77 | 1.86 | 3.84 .38 AMP |
| | | | | 185.87 | 331.28 | 11.84 | 257.36 | 78.53 | 245.96 | 186.88 29.14 PHASE |
| 294 | 55.61 | 16.48 | 652 | 6.95 | 4.79 | 2.93 | 2.35 | 6.24 | 1.88 | 3.87 .38 AMP |
| | | | | 94.98 | 329.17 | 4.16 | 248.99 | 69.87 | 211.34 | 164.68 18.92 PHASE |
| 295 | 49.17 | 11.75 | 653 | 4.22 | 2.89 | 2.75 | .98 | 4.24 | 1.88 | 1.87 .63 AMP |
| | | | | 148.91 | 321.97 | 355.73 | 338.87 | 33.73 | 386.44 | 199.48 345.79 PHASE |
| 296 | 50.52 | 13.28 | 653 | 4.66 | 3.32 | 3.28 | 1.19 | 4.58 | 1.18 | 1.19 .72 AMP |
| | | | | 133.42 | 323.81 | 356.14 | 328.36 | 28.96 | 381.58 | 185.82 321.99 PHASE |
| 297 | 51.96 | 14.22 | 653 | 5.81 | 3.81 | 3.64 | 1.56 | 5.12 | 1.87 | 1.85 .58 AMP |
| | | | | 132.25 | 338.97 | 6.46 | 323.91 | 37.68 | 315.49 | 197.16 344.34 PHASE |
| 299 | 53.38 | 15.15 | 653 | 5.58 | 4.84 | 4.18 | 2.87 | 5.12 | 1.88 | 3.87 .38 AMP |
| | | | | 124.51 | 332.98 | 2.98 | 319.79 | 33.63 | 383.87 | 181.39 316.88 PHASE |
| 300 | 54.14 | 15.28 | 652 | 5.82 | 4.28 | 3.94 | 2.14 | 5.67 | .87 | 1.31 .68 AMP |
| | | | | 119.18 | 332.43 | 359.53 | 312.99 | 32.33 | 297.37 | 178.88 312.68 PHASE |
| 301 | 55.88 | 15.61 | 652 | 6.21 | 4.35 | 3.85 | 2.42 | 5.73 | .64 | 1.39 .73 AMP |
| | | | | 114.39 | 336.43 | .91 | 389.98 | 41.38 | 295.37 | 164.47 311.76 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|---------------------|
| RUN NO 11 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P 8P |
| 279 | 57.27 | 39.26 | 653 | 18.94 | 4.42 | 6.67 | 3.69 | 6.94 | 5.88 | 1.27 .38 AMP |
| | | | | 273.25 | 185.75 | 253.88 | 58.88 | 352.81 | 198.44 | 317.25 41.82 PHASE |
| 280 | 56.53 | 49.88 | 654 | 26.79 | 7.37 | 5.76 | 4.57 | 6.89 | 7.33 | 1.55 .28 AMP |
| | | | | 289.48 | 182.33 | 248.18 | 28.43 | 388.76 | 194.31 | 283.79 17.19 PHASE |
| 281 | 55.58 | 53.79 | 653 | 35.21 | 18.53 | 7.15 | 6.39 | 18.23 | 7.18 | 2.11 .44 AMP |
| | | | | 389.68 | 119.88 | 233.94 | 32.48 | 316.38 | 238.94 | 333.75 54.44 PHASE |
| 282 | 53.31 | 63.93 | 653 | 44.82 | 18.93 | 18.93 | 8.26 | 18.48 | 9.88 | 2.65 .71 AMP |
| | | | | 321.87 | 123.53 | 31.98 | 35.44 | 318.63 | 245.89 | 326.88 38.58 PHASE |
| 283 | 51.11 | 88.89 | 652 | 55.81 | 15.79 | 15.95 | 9.78 | 12.42 | 18.65 | 3.52 1.82 AMP |
| | | | | 328.81 | 123.28 | 227.78 | 28.28 | 296.68 | 253.61 | 285.51 348.28 PHASE |
| 284 | 49.53 | 97.77 | 653 | 69.28 | 17.64 | 28.23 | 11.83 | 12.75 | 18.94 | 4.89 .88 AMP |
| | | | | 348.11 | 137.31 | 248.23 | 37.16 | 321.55 | 298.75 | 299.21 21.59 PHASE |
| 285 | 49.29 | 116.82 | 653 | 81.88 | 18.97 | 23.75 | 18.86 | 12.94 | 12.12 | 6.82 1.19 AMP |
| | | | | 344.25 | 136.57 | 241.64 | 14.87 | 294.27 | 284.16 | 268.85 352.87 PHASE |
| 286 | 51.17 | 145.85 | 653 | 89.88 | 22.84 | 27.92 | 12.95 | 6.77 | 8.67 | 5.76 .68 AMP |
| | | | | 385.18 | 158.12 | 281.39 | 7.46 | 328.64 | 389.88 | 259.49 58.27 PHASE |
| 287 | 56.12 | 26.21 | 653 | 12.16 | 2.92 | 5.58 | 4.78 | 5.11 | 2.38 | 1.88 .49 AMP |
| | | | | 277.65 | 114.58 | 241.31 | 43.85 | 341.26 | 198.84 | 298.54 44.37 PHASE |
| 288 | 55.79 | 35.29 | 652 | 19.56 | 6.75 | 5.58 | 4.86 | 7.37 | 3.16 | 1.36 .38 AMP |
| | | | | 388.64 | 128.76 | 234.86 | 34.95 | 382.82 | 234.37 | 317.48 87.87 PHASE |
| 289 | 56.11 | 52.56 | 653 | 38.28 | 9.92 | 9.25 | 7.87 | 9.73 | 2.76 | 1.42 .48 AMP |
| | | | | 315.63 | 116.92 | 283.71 | 5.11 | 293.24 | 193.25 | 281.59 44.58 PHASE |
| 290 | 55.76 | 67.66 | 654 | 39.73 | 11.74 | 15.78 | 8.78 | 4.85 | 7.27 | 1.88 .58 AMP |
| | | | | 326.31 | 128.23 | 287.31 | .81 | 294.18 | 185.89 | 254.78 27.27 PHASE |
| 291 | 55.18 | 84.88 | 653 | 53.85 | 14.66 | 19.78 | 18.74 | 8.91 | 6.63 | 2.52 .98 AMP |
| | | | | 341.53 | 139.48 | 238.55 | 39.18 | 316.44 | 263.49 | 315.86 93.46 PHASE |
| 292 | 54.38 | 183.31 | 653 | 66.75 | 15.26 | 25.85 | 11.82 | 18.69 | 8.75 | 2.61 .97 AMP |
| | | | | 343.57 | 134.62 | 235.84 | 28.87 | 295.85 | 269.71 | 297.58 49.67 PHASE |
| 293 | 54.41 | 128.34 | 654 | 84.49 | 15.79 | 29.37 | 9.27 | 18.95 | 7.68 | 2.57 1.86 AMP |
| | | | | 349.37 | 139.72 | 231.98 | 18.22 | 286.99 | 297.84 | 383.79 45.37 PHASE |
| 294 | 54.62 | 126.21 | 652 | 82.53 | 16.88 | 31.78 | 11.54 | 6.84 | 6.84 | 2.88 1.88 AMP |
| | | | | 349.72 | 139.39 | 235.85 | 355.36 | 267.55 | 383.88 | 294.11 53.69 PHASE |
| 295 | 57.48 | 33.89 | 653 | 16.22 | 5.82 | 5.63 | 6.16 | 5.64 | 2.77 | .66 .88 AMP |
| | | | | 313.81 | 137.98 | 218.37 | 31.35 | 288.55 | 247.35 | 318.65 77.75 PHASE |
| 296 | 58.32 | 47.98 | 653 | 26.23 | 6.87 | 11.37 | 8.78 | 4.42 | 3.41 | .72 .37 AMP |
| | | | | 329.99 | 133.65 | 284.37 | 17.74 | 285.57 | 228.22 | 289.52 41.28 PHASE |
| 297 | 59.88 | 72.81 | 653 | 37.62 | 17.66 | 15.78 | 11.55 | 4.85 | 5.74 | 1.88 .58 AMP |
| | | | | 345.57 | 141.73 | 224.77 | 28.29 | 287.98 | 254.41 | 298.89 63.56 PHASE |
| 299 | 60.33 | 98.15 | 653 | 52.64 | 9.64 | 22.92 | 14.87 | 5.68 | 7.24 | 1.85 .88 AMP |
| | | | | 349.87 | 141.25 | 228.91 | 23.88 | 261.93 | 252.87 | 386.88 45.84 PHASE |
| 300 | 59.78 | 181.33 | 652 | 59.83 | 18.11 | 25.72 | 14.45 | 5.84 | 7.74 | 2.14 1.83 AMP |
| | | | | 358.81 | 141.32 | 229.51 | 13.39 | 244.82 | 253.51 | 388.79 39.86 PHASE |
| 301 | 59.93 | 115.63 | 652 | 72.19 | 11.35 | 29.39 | 14.98 | 7.78 | 8.16 | 2.51 1.26 AMP |
| | | | | 364.86 | 143.83 | 237.17 | 7.67 | 237.12 | 264.48 | 329.28 47.23 PHASE |

TABLE VII.- Continued

(d) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 11 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | 18.38 | 9.55 | 653 | 6.63 | 1.56 | .79 | 1.54 | 1.37 | .28 | 1.88 | .38 |
| | | | | 335.74 | 112.88 | 6.34 | 263.72 | 381.58 | 328.28 | 257.84 | 197.49 |
| 280 | 8.24 | 9.98 | 654 | 7.12 | 1.42 | .89 | 1.46 | 1.34 | .24 | 1.82 | .33 |
| | | | | 338.31 | 95.88 | 358.94 | 246.17 | 274.38 | 286.28 | 225.67 | 168.65 |
| 281 | 6.13 | 18.89 | 653 | 7.95 | 1.42 | .74 | 1.58 | 1.32 | .29 | 1.86 | .47 |
| | | | | 349.54 | 95.28 | 8.44 | 264.99 | 382.18 | 273.99 | 254.73 | 283.19 |
| 282 | 3.73 | 12.26 | 653 | 9.31 | 1.63 | .65 | 1.73 | 1.25 | .46 | 1.22 | .38 |
| | | | | 354.41 | 88.17 | 337.18 | 267.39 | 288.34 | 278.99 | 248.78 | 287.88 |
| 283 | 1.84 | 15.24 | 652 | 11.39 | 2.28 | .61 | 1.98 | 1.66 | .51 | 1.18 | .45 |
| | | | | 356.63 | 85.72 | 294.36 | 247.68 | 266.42 | 291.31 | 224.76 | 169.43 |
| 284 | -1.92 | 18.42 | 653 | 14.21 | 2.65 | 1.55 | 2.42 | 2.18 | .68 | 1.54 | .55 |
| | | | | 4.28 | 183.54 | 278.24 | 265.88 | 278.66 | 315.69 | 258.11 | 196.22 |
| 285 | -5.33 | 23.53 | 653 | 17.89 | 2.94 | 3.11 | 3.83 | 2.95 | .88 | 2.18 | .38 |
| | | | | 2.62 | 183.87 | 256.69 | 249.49 | 262.85 | 284.68 | 238.56 | 198.89 |
| 286 | -18.23 | 38.78 | 653 | 23.67 | 2.46 | 5.98 | 2.78 | 5.89 | 2.51 | 3.58 | 1.11 |
| | | | | 4.67 | 136.11 | 274.65 | 243.22 | 259.81 | 275.36 | 261.44 | 383.36 |
| 287 | 9.41 | 8.68 | 653 | 6.12 | 1.11 | .79 | 1.69 | 1.13 | .27 | .79 | .82 |
| | | | | 333.49 | 91.57 | 324.17 | 243.31 | 388.38 | 47.35 | 248.42 | 23.19 |
| 288 | 7.37 | 8.81 | 652 | 6.66 | .86 | .78 | 1.68 | 1.85 | .31 | .83 | .84 |
| | | | | 344.42 | 83.95 | 336.66 | 249.19 | 318.82 | 48.22 | 256.38 | 187.38 |
| 289 | 5.29 | 9.75 | 653 | 7.51 | .84 | .65 | 1.78 | 1.88 | .21 | .87 | .14 |
| | | | | 346.25 | 59.54 | 315.53 | 229.54 | 298.88 | 18.88 | 217.32 | 195.57 |
| 290 | 3.33 | 11.56 | 654 | 8.48 | .96 | .59 | 1.89 | .98 | .21 | 1.14 | .15 |
| | | | | 358.45 | 48.93 | 288.27 | 225.54 | 298.61 | 17.28 | 199.97 | 286.91 |
| 291 | .88 | 13.58 | 653 | 18.87 | 1.12 | .96 | 2.18 | 1.86 | .12 | 1.22 | .18 |
| | | | | 3.41 | 81.39 | 272.43 | 258.75 | 335.77 | 72.15 | 247.58 | 232.93 |
| 292 | -1.49 | 15.72 | 653 | 12.81 | 1.58 | 1.58 | 2.28 | 1.29 | .26 | 1.24 | .25 |
| | | | | 4.67 | 95.64 | 258.24 | 249.24 | 319.87 | 1.86 | 222.24 | 192.53 |
| 293 | -4.35 | 28.48 | 654 | 15.18 | 2.51 | 2.82 | 2.68 | 2.18 | .84 | 1.17 | .27 |
| | | | | 7.85 | 184.43 | 244.11 | 259.17 | 321.85 | 349.18 | 223.32 | 227.62 |
| 294 | -5.97 | 23.39 | 652 | 17.12 | 3.87 | 3.64 | 3.81 | 2.73 | 1.12 | 1.88 | .18 |
| | | | | 6.25 | 181.85 | 236.17 | 258.68 | 316.29 | 334.28 | 219.88 | 281.84 |
| 295 | 6.34 | 7.43 | 653 | 6.88 | .51 | .79 | 1.36 | .96 | .14 | .43 | .83 |
| | | | | 344.29 | 57.27 | 325.98 | 232.87 | 291.46 | 24.41 | 223.37 | 198.79 |
| 296 | 4.46 | 8.44 | 653 | 6.75 | .55 | .73 | 1.46 | 1.85 | .17 | .66 | .88 |
| | | | | 349.28 | 35.98 | 318.36 | 231.28 | 274.27 | 2.18 | 214.35 | 297.78 |
| 297 | 2.46 | 9.97 | 653 | 7.75 | .64 | .68 | 1.77 | 1.21 | .85 | .79 | .87 |
| | | | | 358.86 | 39.84 | 312.23 | 242.74 | 291.87 | 355.89 | 234.84 | 285.79 |
| 299 | .48 | 11.63 | 653 | 8.96 | .72 | .61 | 2.85 | 1.38 | .85 | .83 | .16 |
| | | | | 1.95 | 48.13 | 275.93 | 239.13 | 286.11 | 179.48 | 222.68 | 211.85 |
| 300 | -.78 | 12.81 | 652 | 9.63 | .72 | .76 | 2.28 | 1.48 | .88 | .81 | .15 |
| | | | | 3.26 | 55.66 | 257.22 | 237.12 | 286.54 | 118.87 | 215.12 | 286.33 |
| 381 | -1.93 | 14.29 | 652 | 18.71 | .87 | 1.12 | 2.37 | 1.58 | .22 | .79 | .17 |
| | | | | 6.68 | 71.73 | 243.86 | 243.12 | 382.15 | 188.78 | 213.58 | 224.33 |

TABLE VII.- Continued

(d) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 11 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | 32.45 | 14.19 | 653 | 8.48 | 4.22 | 1.98 | .33 | 3.81 | .45 | .11 | .29 AMP |
| | | | | 138.89 | 318.67 | 8.37 | 295.31 | 56.31 | 382.83 | 163.37 | 212.85 PHASE |
| 280 | 33.47 | 15.27 | 654 | 9.61 | 4.67 | 2.79 | .28 | 3.12 | .38 | .13 | .14 AMP |
| | | | | 134.61 | 388.55 | 357.17 | 313.16 | 35.35 | 294.74 | 81.11 | 169.94 PHASE |
| 281 | 34.31 | 16.71 | 653 | 18.67 | 5.43 | 3.34 | .12 | 3.87 | .33 | .13 | .18 AMP |
| | | | | 139.79 | 314.38 | 16.83 | 38.18 | 64.32 | 315.14 | 134.94 | 269.17 PHASE |
| 282 | 35.89 | 17.52 | 653 | 11.58 | 5.98 | 3.88 | .28 | 2.88 | .27 | .17 | .22 AMP |
| | | | | 137.58 | 312.17 | 18.88 | 82.64 | 57.92 | 282.75 | 175.99 | 329.82 PHASE |
| 283 | 35.74 | 18.83 | 652 | 12.54 | 6.57 | 4.98 | .48 | 2.63 | .28 | .23 | .38 AMP |
| | | | | 131.91 | 384.21 | 9.81 | 52.42 | 34.75 | 244.29 | 217.97 | 387.73 PHASE |
| 284 | 36.58 | 19.66 | 653 | 13.33 | 7.28 | 5.38 | .62 | 2.81 | .45 | .34 | .53 AMP |
| | | | | 133.45 | 312.68 | 28.69 | 69.98 | 43.79 | 216.98 | 268.89 | 334.85 PHASE |
| 285 | 37.21 | 28.84 | 653 | 13.78 | 8.51 | 5.13 | .33 | 1.46 | .61 | .42 | .68 AMP |
| | | | | 127.21 | 387.13 | 21.88 | 44.68 | 358.85 | 186.31 | 241.73 | 297.34 PHASE |
| 286 | 37.76 | 21.32 | 653 | 13.38 | 18.94 | 3.58 | .88 | 1.92 | .59 | .24 | .34 AMP |
| | | | | 126.43 | 389.82 | 23.37 | 261.61 | 328.43 | 166.88 | 234.65 | 339.87 PHASE |
| 287 | 33.32 | 12.93 | 653 | 7.34 | 3.77 | 2.62 | .54 | 2.74 | .42 | .18 | .47 AMP |
| | | | | 134.28 | 319.83 | 3.19 | 318.67 | 51.84 | 271.54 | 191.55 | 172.19 PHASE |
| 288 | 34.57 | 14.76 | 652 | 8.34 | 4.39 | 3.58 | .75 | 2.63 | .37 | .17 | .42 AMP |
| | | | | 137.84 | 322.11 | 11.48 | 325.45 | 64.43 | 263.91 | 168.87 | 194.57 PHASE |
| 289 | 35.78 | 16.24 | 653 | 9.45 | 4.98 | 3.28 | .98 | 2.52 | .43 | .14 | .38 AMP |
| | | | | 133.96 | 388.81 | 359.43 | 299.86 | 44.67 | 226.96 | 169.38 | 157.56 PHASE |
| 290 | 36.69 | 16.73 | 654 | 18.38 | 5.31 | 4.63 | .86 | 2.39 | .43 | .21 | .24 AMP |
| | | | | 132.28 | 384.18 | .86 | 287.52 | 34.15 | 218.41 | 172.21 | 139.97 PHASE |
| 291 | 37.69 | 18.83 | 653 | 11.36 | 5.83 | 5.38 | .91 | 2.56 | .54 | .29 | .25 AMP |
| | | | | 137.91 | 316.48 | 24.73 | 388.46 | 73.52 | 244.16 | 252.55 | 188.98 PHASE |
| 292 | 38.63 | 19.71 | 653 | 12.21 | 5.93 | 5.77 | .83 | 2.71 | .57 | .42 | .23 AMP |
| | | | | 132.87 | 389.68 | 17.85 | 284.88 | 62.65 | 215.36 | 249.64 | 186.57 PHASE |
| 293 | 39.47 | 28.35 | 654 | 12.74 | 6.25 | 5.88 | .88 | 2.95 | .74 | .55 | .24 AMP |
| | | | | 129.23 | 389.93 | 28.57 | 238.88 | 72.62 | 186.77 | 251.13 | 228.85 PHASE |
| 294 | 39.88 | 28.95 | 652 | 12.89 | 6.59 | 5.53 | 1.23 | 3.27 | .89 | .55 | .28 AMP |
| | | | | 124.78 | 386.58 | 15.28 | 213.95 | 73.97 | 159.49 | 239.46 | 212.98 PHASE |
| 295 | 35.57 | 12.28 | 653 | 7.47 | 3.58 | 3.51 | .79 | 2.36 | .28 | .14 | .26 AMP |
| | | | | 136.41 | 323.55 | 2.23 | 338.32 | 29.27 | 268.22 | 224.88 | 168.94 PHASE |
| 296 | 36.68 | 13.22 | 653 | 8.56 | 4.28 | 4.34 | .98 | 2.52 | .35 | .15 | .22 AMP |
| | | | | 135.25 | 318.41 | 1.68 | 326.33 | 17.83 | 255.48 | 218.11 | 147.44 PHASE |
| 297 | 37.77 | 15.88 | 653 | 9.69 | 5.99 | 5.88 | 1.12 | 2.96 | .35 | .32 | .27 AMP |
| | | | | 138.95 | 324.51 | 13.23 | 329.25 | 33.12 | 259.26 | 253.14 | 158.94 PHASE |
| 299 | 38.95 | 16.83 | 653 | 18.95 | 5.43 | 5.92 | 1.34 | 3.19 | .48 | .48 | .32 AMP |
| | | | | 137.88 | 322.45 | 13.88 | 324.51 | 29.89 | 251.92 | 268.87 | 143.97 PHASE |
| 300 | 39.51 | 17.86 | 652 | 11.46 | 5.72 | 6.88 | 1.36 | 3.32 | .39 | .52 | .25 AMP |
| | | | | 136.78 | 328.37 | 11.56 | 318.92 | 29.32 | 237.92 | 268.22 | 139.14 PHASE |
| 301 | 48.22 | 18.33 | 652 | 12.86 | 6.14 | 6.19 | 1.48 | 3.33 | .37 | .56 | .23 AMP |
| | | | | 136.89 | 321.83 | 15.34 | 315.28 | 38.57 | 227.82 | 272.31 | 132.14 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 11 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | 31.68 | 37.68 | 653 | 15.69 | 3.69 | 5.58 | 4.93 | 8.98 | 7.89 | 2.83 | .89 AMP |
| | | | | 272.79 | 181.87 | 258.88 | 46.94 | 357.88 | 192.92 | 358.41 | 29.28 PHASE |
| 280 | 38.85 | 49.36 | 654 | 22.41 | 6.58 | 5.65 | 6.75 | 8.43 | 11.64 | 3.11 | 1.88 AMP |
| | | | | 286.85 | 97.27 | 258.29 | 15.56 | 313.89 | 192.12 | 293.49 | 43.87 PHASE |
| 281 | 28.84 | 54.55 | 653 | 29.29 | 9.51 | 6.82 | 9.52 | 11.83 | 18.86 | 14.47 | 1.46 AMP |
| | | | | 385.92 | 115.58 | 258.88 | 33.71 | 323.89 | 288.71 | 353.56 | 88.87 PHASE |
| 282 | 26.61 | 62.54 | 653 | 37.17 | 12.71 | 9.83 | 1.87 | 12.97 | 13.58 | 3.93 | 2.89 AMP |
| | | | | 317.32 | 121.58 | 253.96 | 38.69 | 324.68 | 244.82 | 349.78 | 57.88 PHASE |
| 283 | 23.33 | 74.56 | 652 | 46.58 | 14.99 | 14.24 | 14.87 | 16.59 | 16.89 | 4.12 | 2.82 AMP |
| | | | | 323.76 | 123.87 | 248.69 | 38.72 | 383.88 | 254.86 | 291.11 | 3.11 PHASE |
| 284 | 19.84 | 89.78 | 653 | 57.76 | 17.54 | 18.28 | 15.96 | 18.38 | 16.88 | 7.24 | 3.14 AMP |
| | | | | 335.54 | 137.52 | 267.82 | 41.12 | 338.78 | 294.81 | 298.56 | 22.83 PHASE |
| 285 | 17.59 | 183.86 | 653 | 68.15 | 28.69 | 21.86 | 15.98 | 18.74 | 18.88 | 18.69 | 4.84 AMP |
| | | | | 339.96 | 138.67 | 268.76 | 21.16 | 384.84 | 288.15 | 257.68 | 338.37 PHASE |
| 286 | 17.86 | 128.85 | 653 | 81.39 | 25.99 | 26.68 | 16.58 | 14.28 | 11.93 | 12.32 | 2.68 AMP |
| | | | | 351.69 | 158.58 | 272.28 | 13.88 | 327.76 | 325.35 | 255.65 | 349.69 PHASE |
| 287 | 28.98 | 25.82 | 653 | 18.29 | 2.28 | 4.82 | 6.25 | 6.49 | 3.32 | 2.19 | .74 AMP |
| | | | | 278.87 | 112.26 | 252.83 | 35.38 | 351.73 | 191.85 | 321.76 | 85.44 PHASE |
| 288 | 28.62 | 33.63 | 652 | 16.45 | 5.26 | 4.45 | 7.21 | 7.93 | 5.35 | 3.15 | 1.47 AMP |
| | | | | 296.95 | 114.42 | 253.72 | 38.34 | 389.93 | 239.34 | 329.29 | 182.82 PHASE |
| 289 | 28.36 | 47.72 | 653 | 24.78 | 7.41 | 1.93 | 18.21 | 14.29 | 11.71 | 7.88 | 1.85 AMP |
| | | | | 389.74 | 112.19 | 223.55 | 6.92 | 298.78 | 192.73 | 298.97 | 44.94 PHASE |
| 290 | 27.29 | 61.61 | 654 | 32.16 | 9.88 | 18.73 | 12.48 | 18.88 | 7.28 | 2.86 | 2.25 AMP |
| | | | | 319.69 | 117.94 | 225.58 | 1.95 | 388.88 | 185.58 | 255.38 | 29.58 PHASE |
| 291 | 25.36 | 76.72 | 653 | 42.74 | 12.89 | 16.33 | 15.38 | 18.81 | 18.94 | 4.23 | 2.88 AMP |
| | | | | 335.88 | 139.79 | 256.67 | 39.35 | 323.37 | 262.18 | 298.78 | 86.31 PHASE |
| 292 | 23.37 | 91.68 | 653 | 53.86 | 14.42 | 21.53 | 16.27 | 12.91 | 13.95 | 5.53 | 2.78 AMP |
| | | | | 337.15 | 135.48 | 253.25 | 28.44 | 383.71 | 268.68 | 268.32 | 46.82 PHASE |
| 293 | 21.85 | 181.46 | 654 | 81.75 | 17.88 | 27.88 | 14.33 | 12.23 | 11.71 | 7.86 | 2.63 AMP |
| | | | | 343.38 | 148.76 | 255.98 | 22.78 | 295.83 | 293.78 | 267.19 | 19.97 PHASE |
| 294 | 21.88 | 186.81 | 652 | 73.95 | 18.74 | 28.97 | 14.12 | 12.39 | 18.35 | 6.52 | 2.56 AMP |
| | | | | 343.98 | 148.51 | 258.85 | 4.97 | 269.45 | 388.85 | 256.24 | 4.26 PHASE |
| 295 | 29.18 | 33.72 | 653 | 13.28 | 3.88 | 3.88 | 8.41 | 5.77 | 4.71 | 1.68 | 1.34 AMP |
| | | | | 389.34 | 137.18 | 232.37 | 29.88 | 298.64 | 249.68 | 336.89 | 66.13 PHASE |
| 296 | 29.36 | 44.72 | 653 | 28.81 | 5.49 | 7.98 | 11.88 | 5.88 | 5.88 | 1.13 | 1.86 AMP |
| | | | | 324.89 | 135.23 | 228.73 | 19.43 | 389.84 | 223.88 | 281.87 | 48.84 PHASE |
| 297 | 29.87 | 64.94 | 653 | 29.31 | 6.55 | 12.24 | 15.34 | 5.67 | 18.19 | 3.25 | 2.28 AMP |
| | | | | 337.73 | 144.36 | 239.63 | 38.89 | 311.27 | 252.52 | 268.66 | 69.72 PHASE |
| 299 | 29.24 | 82.88 | 653 | 48.46 | 8.87 | 17.75 | 18.78 | 5.41 | 12.53 | 4.57 | 2.33 AMP |
| | | | | 341.13 | 148.99 | 243.56 | 25.51 | 288.22 | 251.29 | 271.44 | 59.12 PHASE |
| 300 | 28.73 | 98.43 | 652 | 46.88 | 8.81 | 28.37 | 19.43 | 4.57 | 13.38 | 5.29 | 2.43 AMP |
| | | | | 342.68 | 139.99 | 244.13 | 17.14 | 269.41 | 252.88 | 273.18 | 45.64 PHASE |
| 301 | 27.63 | 181.73 | 652 | 55.12 | 18.87 | 23.93 | 28.35 | 5.77 | 13.75 | 5.91 | 2.66 AMP |
| | | | | 346.81 | 141.91 | 251.38 | 14.25 | 247.38 | 262.39 | 298.94 | 47.63 PHASE |

TABLE VII.- Continued

(d) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 11 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | 9.18 | 9.35 | 653 | 6.88 | 1.66 | 1.58 | 1.36 | 1.27 | .14 | .61 | .28 |
| | | | | 328.98 | 182.82 | 344.54 | 231.46 | 256.98 | 278.34 | 213.65 | 146.69 |
| 280 | 7.86 | 9.84 | 654 | 7.36 | 1.52 | 1.63 | 1.31 | 1.24 | .12 | .62 | .19 |
| | | | | 338.81 | 89.34 | 338.33 | 214.51 | 228.74 | 241.88 | 178.97 | 118.26 |
| 281 | 4.91 | 18.38 | 653 | 8.16 | 1.48 | 1.46 | 1.39 | 1.25 | .15 | .69 | .26 |
| | | | | 341.29 | 92.41 | 346.27 | 233.35 | 266.99 | 218.94 | 287.33 | 152.62 |
| 282 | 2.68 | 11.58 | 653 | 9.49 | 1.73 | .33 | 1.68 | 1.23 | .23 | .88 | .28 |
| | | | | 345.68 | 83.79 | 293.89 | 236.89 | 247.19 | 228.72 | 288.35 | 167.87 |
| 283 | .19 | 13.72 | 652 | 11.29 | 2.38 | .39 | 1.89 | 1.48 | .27 | .75 | .24 |
| | | | | 346.96 | 75.51 | 224.48 | 216.74 | 227.33 | 241.28 | 183.29 | 115.67 |
| 284 | -2.57 | 16.75 | 653 | 13.75 | 2.61 | 1.38 | 2.34 | 1.87 | .46 | .99 | .32 |
| | | | | 354.17 | 89.45 | 226.14 | 233.25 | 248.82 | 267.23 | 285.97 | 146.38 |
| 285 | -5.65 | 21.82 | 653 | 16.98 | 2.79 | 2.58 | 3.88 | 2.38 | .58 | 1.46 | .29 |
| | | | | 351.91 | 85.48 | 219.85 | 219.51 | 225.62 | 236.79 | 185.82 | 146.87 |
| 286 | -18.88 | 26.48 | 653 | 21.95 | 2.28 | 4.74 | 2.78 | 3.92 | 2.89 | 2.57 | .77 |
| | | | | 353.65 | 114.18 | 244.37 | 228.16 | 228.77 | 229.48 | 216.52 | 248.49 |
| 287 | 8.14 | 8.46 | 653 | 6.58 | 1.19 | .46 | 1.49 | 1.84 | .27 | .47 | .81 |
| | | | | 327.57 | 84.72 | 292.29 | 211.92 | 253.56 | 26.72 | 199.32 | 276.55 |
| 288 | 6.23 | 8.79 | 652 | 7.86 | .96 | .41 | 1.38 | .97 | .28 | .49 | .82 |
| | | | | 337.67 | 83.33 | 383.65 | 217.96 | 278.22 | 28.85 | 214.87 | 288.46 |
| 289 | 4.19 | 9.88 | 653 | 7.91 | .89 | .33 | 1.51 | 1.83 | .24 | .56 | .18 |
| | | | | 338.59 | 64.86 | 264.95 | 198.29 | 249.37 | 4.77 | 176.65 | 168.19 |
| 290 | 2.17 | 18.87 | 654 | 8.88 | 1.82 | 4.42 | 1.63 | .96 | .26 | .74 | .14 |
| | | | | 342.33 | 55.22 | 222.67 | 193.95 | 241.63 | 5.84 | 154.51 | 162.82 |
| 291 | -.19 | 13.88 | 653 | 18.48 | 1.32 | .94 | 1.86 | 1.83 | .23 | .88 | .12 |
| | | | | 354.59 | 83.91 | 222.55 | 226.22 | 287.52 | 64.63 | 282.42 | 188.76 |
| 292 | -2.64 | 15.32 | 653 | 12.16 | 1.75 | 1.58 | 1.98 | 1.23 | .26 | .83 | .17 |
| | | | | 355.58 | 98.75 | 287.58 | 217.41 | 272.49 | 12.73 | 179.33 | 139.51 |
| 293 | -5.38 | 19.68 | 654 | 14.92 | 2.78 | 2.62 | 2.48 | 1.93 | .58 | .77 | .16 |
| | | | | 358.33 | 92.45 | 286.98 | 228.73 | 288.15 | 324.18 | 183.78 | 173.44 |
| 294 | -6.77 | 22.45 | 652 | 16.71 | 3.18 | 3.28 | 2.79 | 2.51 | .81 | .76 | .15 |
| | | | | 356.61 | 88.17 | 281.32 | 228.48 | 275.57 | 382.91 | 188.68 | 221.15 |
| 295 | 5.11 | 7.98 | 653 | 6.53 | .58 | .38 | 1.16 | .87 | .17 | .28 | .82 |
| | | | | 337.98 | 63.25 | 285.93 | 281.28 | 243.47 | 13.71 | 189.18 | 243.24 |
| 296 | 3.25 | 8.49 | 653 | 7.38 | .56 | .35 | 1.24 | 1.88 | .17 | .44 | .88 |
| | | | | 341.89 | 49.68 | 271.67 | 198.32 | 228.71 | 1.17 | 175.63 | 234.57 |
| 297 | 1.27 | 9.88 | 653 | 8.26 | .64 | .36 | 1.58 | 1.15 | .11 | .52 | .85 |
| | | | | 349.74 | 57.28 | 249.87 | 288.84 | 248.89 | 37.99 | 188.51 | 288.45 |
| 299 | -.83 | 11.48 | 653 | 9.41 | .71 | .53 | 1.84 | 1.23 | .13 | .68 | .86 |
| | | | | 352.97 | 64.88 | 282.68 | 285.63 | 242.43 | 69.81 | 175.82 | 168.45 |
| 300 | -1.88 | 12.29 | 652 | 18.85 | .77 | .75 | 1.96 | 1.33 | .17 | .59 | .86 |
| | | | | 354.23 | 72.34 | 197.84 | 283.37 | 242.46 | 58.69 | 168.84 | 153.24 |
| 301 | -3.14 | 13.73 | 652 | 11.86 | .98 | 1.18 | 2.11 | 1.38 | .38 | .68 | .87 |
| | | | | 357.45 | 81.25 | 194.27 | 289.25 | 258.58 | 53.12 | 167.67 | 179.49 |

TABLE VII.- Continued

(d) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 11 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | 18.82 | 17.46 | 653 | 18.28 | 6.89 | 2.96 | .68 | 1.16 | 1.26 | 2.31 | .24 AMP |
| | | | | 127.93 | 312.88 | 359.38 | 326.49 | 217.78 | 133.85 | 61.89 | 236.75 PHASE |
| 280 | 19.63 | 18.91 | 654 | 11.77 | 6.67 | 4.81 | .65 | 1.82 | 1.19 | 2.38 | .14 AMP |
| | | | | 126.22 | 299.99 | 347.49 | 389.81 | 196.24 | 184.68 | 32.27 | 384.79 PHASE |
| 281 | 28.25 | 28.16 | 653 | 13.27 | 7.61 | 4.74 | .66 | .94 | 1.89 | 2.27 | .52 AMP |
| | | | | 132.96 | 385.76 | 6.83 | 336.28 | 215.98 | 125.84 | 65.45 | 4.39 PHASE |
| 282 | 28.91 | 22.86 | 653 | 14.73 | 8.41 | 5.48 | .74 | 1.17 | 1.73 | 2.43 | .88 AMP |
| | | | | 132.54 | 381.56 | 6.53 | 336.65 | 212.86 | 113.82 | 59.58 | 4.49 PHASE |
| 283 | 21.46 | 24.56 | 652 | 16.32 | 9.18 | 6.58 | .96 | .49 | 1.23 | 2.49 | 1.18 AMP |
| | | | | 128.15 | 293.15 | 357.96 | 338.68 | 183.88 | 87.93 | 31.94 | 329.52 PHASE |
| 284 | 22.13 | 27.18 | 653 | 17.82 | 18.87 | 6.98 | 1.13 | .19 | 1.25 | 3.13 | 1.89 AMP |
| | | | | 131.41 | 388.42 | 16.76 | 17.93 | 151.12 | 92.86 | 48.89 | 351.67 PHASE |
| 285 | 22.62 | 38.15 | 653 | 18.92 | 11.76 | 6.81 | 1.38 | .38 | 1.32 | 3.54 | 2.84 AMP |
| | | | | 127.84 | 293.81 | 9.49 | 26.74 | 74.89 | 45.73 | 15.34 | 325.81 PHASE |
| 286 | 22.66 | 31.11 | 653 | 18.72 | 14.94 | 5.62 | .88 | .64 | 1.67 | 3.86 | 2.23 AMP |
| | | | | 128.97 | 298.83 | 17.86 | 47.36 | 21.31 | 51.64 | 11.73 | 342.75 PHASE |
| 287 | 28.28 | 16.51 | 653 | 9.63 | 5.32 | 3.53 | .98 | 1.16 | .71 | 1.91 | .95 AMP |
| | | | | 123.85 | 388.87 | 357.63 | 388.82 | 232.38 | 135.26 | 22.78 | 288.74 PHASE |
| 288 | 21.89 | 18.12 | 652 | 18.94 | 6.19 | 4.85 | .99 | 1.89 | .74 | 1.97 | .81 AMP |
| | | | | 128.95 | 389.24 | 4.15 | 322.51 | 247.76 | 138.71 | 48.86 | 218.54 PHASE |
| 289 | 22.89 | 28.52 | 653 | 12.47 | 7.11 | 5.93 | 1.15 | .61 | 1.83 | 2.88 | .56 AMP |
| | | | | 126.28 | 295.17 | 35.21 | 386.79 | 225.87 | 183.18 | 358.96 | 176.86 PHASE |
| 290 | 22.86 | 22.25 | 654 | 13.92 | 7.78 | 6.53 | 1.88 | 1.86 | .64 | 2.28 | .46 AMP |
| | | | | 126.23 | 289.82 | 358.36 | 384.41 | 223.73 | 93.78 | 358.53 | 148.68 PHASE |
| 291 | 23.73 | 25.62 | 653 | 15.47 | 8.88 | 7.68 | 1.84 | 1.18 | .68 | 2.52 | .38 AMP |
| | | | | 133.77 | 388.33 | 14.73 | 331.51 | 267.84 | 138.56 | 38.75 | 282.88 PHASE |
| 292 | 24.48 | 27.63 | 653 | 16.92 | 9.27 | 8.24 | 1.83 | 1.16 | .58 | 2.67 | .25 AMP |
| | | | | 138.56 | 292.67 | 7.22 | 324.28 | 254.64 | 98.88 | 194.24 | 194.77 PHASE |
| 293 | 25.12 | 29.45 | 654 | 18.88 | 9.89 | 8.31 | .66 | 1.27 | .46 | 2.89 | .14 AMP |
| | | | | 129.42 | 298.22 | 8.62 | 329.66 | 248.57 | 79.34 | 2.88 | 276.38 PHASE |
| 294 | 25.49 | 38.68 | 652 | 18.39 | 18.36 | 8.27 | .33 | 1.39 | .42 | 2.88 | .43 AMP |
| | | | | 126.57 | 285.78 | 3.22 | 321.47 | 238.81 | 46.98 | 342.81 | 225.23 PHASE |
| 295 | 22.93 | 15.19 | 653 | 9.97 | 4.94 | 4.73 | .67 | .92 | .58 | .97 | .46 AMP |
| | | | | 128.67 | 387.97 | 354.77 | 318.87 | 229.28 | 129.13 | 7.14 | 165.12 PHASE |
| 296 | 23.79 | 17.31 | 653 | 11.36 | 5.81 | 5.78 | .51 | .84 | 1.88 | 1.88 | .55 AMP |
| | | | | 129.85 | 382.17 | 354.38 | 298.84 | 223.26 | 119.84 | 358.83 | 138.32 PHASE |
| 297 | 24.57 | 28.86 | 653 | 12.88 | 6.93 | 6.94 | .58 | 1.87 | .45 | 1.86 | .48 AMP |
| | | | | 133.75 | 387.64 | 6.34 | 319.86 | 245.84 | 133.81 | 8.89 | 166.83 PHASE |
| 299 | 25.51 | 22.82 | 653 | 14.53 | 7.69 | 8.13 | .51 | 1.87 | .39 | 1.16 | .55 AMP |
| | | | | 134.21 | 384.43 | 6.77 | 323.75 | 243.82 | 126.43 | 349.94 | 129.77 PHASE |
| 300 | 25.97 | 24.15 | 652 | 15.31 | 8.88 | 8.56 | .49 | 1.18 | .38 | 1.23 | .52 AMP |
| | | | | 134.89 | 381.92 | 5.37 | 328.58 | 242.66 | 125.51 | 339.14 | 124.77 PHASE |
| 301 | 26.53 | 25.98 | 652 | 16.32 | 8.69 | 8.98 | .45 | 1.11 | .39 | 1.39 | .61 AMP |
| | | | | 135.62 | 381.66 | 9.29 | 341.21 | 258.15 | 134.87 | 332.76 | 118.93 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 11 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | 33.16 | 42.36 | 653 | 15.48 | 3.52 | 5.19 | 5.85 | 18.33 | 9.28 | 3.88 | .43 AMP |
| | | | | 274.84 | 186.29 | 264.64 | 49.37 | 359.18 | 194.36 | 13.64 | 57.56 PHASE |
| 280 | 32.48 | 52.26 | 654 | 21.23 | 6.81 | 5.38 | 8.81 | 9.47 | 15.12 | 4.84 | 1.73 AMP |
| | | | | 284.95 | 98.45 | 258.57 | 18.88 | 317.82 | 197.78 | 387.37 | 93.48 PHASE |
| 281 | 31.14 | 57.33 | 653 | 27.32 | 8.23 | 11.17 | 17.88 | 17.88 | 13.77 | 6.86 | 2.81 AMP |
| | | | | 381.98 | 114.47 | 264.94 | 36.53 | 326.52 | 233.98 | 3.79 | 94.48 PHASE |
| 282 | 28.92 | 66.74 | 653 | 34.56 | 11.41 | 9.18 | 14.14 | 14.28 | 17.87 | 4.85 | 2.98 AMP |
| | | | | 312.37 | 117.59 | 265.38 | 48.92 | 327.52 | 247.26 | 3.34 | 75.46 PHASE |
| 283 | 25.68 | 76.38 | 652 | 43.29 | 14.25 | 13.21 | 16.68 | 18.98 | 28.82 | 4.29 | 3.39 AMP |
| | | | | 317.91 | 116.51 | 268.53 | 31.46 | 388.58 | 257.99 | 388.57 | 21.53 PHASE |
| 284 | 21.73 | 89.76 | 653 | 53.88 | 16.98 | 17.29 | 19.28 | 21.47 | 19.83 | 7.64 | 3.93 AMP |
| | | | | 329.63 | 138.35 | 278.19 | 41.15 | 337.73 | 297.38 | 293.44 | 38.84 PHASE |
| 285 | 18.63 | 181.85 | 653 | 63.34 | 21.83 | 21.63 | 28.42 | 21.37 | 22.54 | 12.42 | 5.84 AMP |
| | | | | 334.63 | 133.55 | 278.86 | 28.71 | 313.31 | 293.82 | 258.97 | 348.22 PHASE |
| 286 | 16.32 | 114.86 | 653 | 74.89 | 28.18 | 28.57 | 21.12 | 17.98 | 15.86 | 15.83 | 5.11 AMP |
| | | | | 348.17 | 157.26 | 283.58 | 16.74 | 336.21 | 338.87 | 258.23 | 349.89 PHASE |
| 287 | 29.18 | 29.81 | 653 | 18.66 | 2.27 | 3.82 | 7.68 | 7.41 | 4.53 | 3.14 | 1.29 AMP |
| | | | | 288.78 | 118.28 | 264.65 | 36.36 | 351.68 | 195.45 | 338.47 | 86.29 PHASE |
| 288 | 28.63 | 38.66 | 652 | 16.35 | 4.67 | 4.25 | 9.12 | 8.87 | 7.29 | 4.24 | 2.12 AMP |
| | | | | 295.69 | 116.81 | 272.55 | 32.95 | 311.28 | 241.77 | 339.27 | 112.81 PHASE |
| 289 | 28.47 | 51.78 | 653 | 23.48 | 6.99 | 6.11 | 12.65 | 12.31 | 5.48 | 3.22 | 2.73 AMP |
| | | | | 384.74 | 118.71 | 243.85 | 18.88 | 299.61 | 197.46 | 386.88 | 54.67 PHASE |
| 290 | 27.86 | 63.35 | 654 | 29.93 | 8.86 | 9.68 | 14.96 | 12.83 | 9.26 | 3.64 | 3.75 AMP |
| | | | | 312.98 | 114.48 | 241.61 | 4.37 | 382.93 | 187.54 | 258.89 | 43.91 PHASE |
| 291 | 26.23 | 75.48 | 653 | 39.25 | 11.74 | 14.92 | 18.17 | 12.17 | 14.43 | 5.37 | 4.84 AMP |
| | | | | 328.82 | 136.21 | 271.88 | 39.81 | 326.58 | 268.81 | 388.65 | 181.33 PHASE |
| 292 | 23.82 | 88.88 | 653 | 49.11 | 13.52 | 18.22 | 23.42 | 18.85 | 17.99 | 7.29 | 3.55 AMP |
| | | | | 338.33 | 131.38 | 265.97 | 27.55 | 387.18 | 269.89 | 269.19 | 62.88 PHASE |
| 293 | 21.46 | 93.84 | 654 | 61.36 | 17.16 | 25.37 | 18.42 | 12.22 | 15.89 | 9.77 | 3.85 AMP |
| | | | | 337.88 | 135.75 | 265.92 | 21.68 | 296.83 | 294.68 | 268.65 | 22.18 PHASE |
| 294 | 28.31 | 185.95 | 652 | 66.84 | 19.86 | 28.86 | 18.36 | 12.72 | 13.68 | 9.84 | 3.32 AMP |
| | | | | 338.78 | 136.61 | 259.98 | 6.39 | 263.73 | 388.79 | 268.41 | 1.56 PHASE |
| 295 | 28.31 | 38.62 | 653 | 13.25 | 3.48 | 3.59 | 18.38 | 16.38 | 1.27 | 1.27 | .56 AMP |
| | | | | 385.82 | 142.82 | 257.82 | 38.78 | 291.58 | 251.58 | 344.68 | 75.25 PHASE |
| 296 | 27.86 | 47.13 | 653 | 19.75 | 4.96 | 6.89 | 14.31 | 5.75 | 7.64 | 1.46 | 2.98 AMP |
| | | | | 318.38 | 135.89 | 248.59 | 21.75 | 384.47 | 225.84 | 277.19 | 54.83 PHASE |
| 297 | 28.19 | 63.24 | 653 | 26.93 | 6.86 | 18.88 | 18.14 | 6.34 | 13.66 | 4.82 | 3.31 AMP |
| | | | | 338.41 | 142.36 | 258.52 | 32.76 | 317.29 | 253.93 | 266.28 | 83.77 PHASE |
| 299 | 27.82 | 88.81 | 653 | 36.53 | 7.33 | 15.72 | 22.28 | 5.66 | 16.72 | 6.75 | 3.32 AMP |
| | | | | 333.84 | 148.28 | 268.32 | 27.53 | 296.18 | 252.68 | 278.21 | 74.11 PHASE |
| 300 | 27.38 | 86.88 | 652 | 41.18 | 12.79 | 18.22 | 23.24 | 31 | 17.78 | 7.55 | 3.39 AMP |
| | | | | 335.19 | 138.44 | 259.44 | 19.74 | 277.78 | 253.17 | 278.71 | 59.85 PHASE |
| 301 | 25.95 | 95.98 | 652 | 48.83 | 9.13 | 21.82 | 24.48 | 5.25 | 18.11 | 8.49 | 3.62 AMP |
| | | | | 339.48 | 139.36 | 265.17 | 17.87 | 247.88 | 263.69 | 288.23 | 58.29 PHASE |

TABLE VII.- Continued

(d) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 11 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 279 | 5.86 | 7.83 | 653 | 5.73 | 1.33 | .56 | 1.84 | 1.12 | .81 | .39 | .25 | AMP |
| 280 | 3.29 | 8.86 | 654 | 338.11 | 128.85 | 357.16 | 258.35 | 287.52 | 113.39 | 271.61 | 281.25 | PHASE |
| 281 | 1.46 | 8.28 | 653 | 6.88 | 1.18 | .63 | .95 | 1.89 | .82 | .48 | .28 | AMP |
| 282 | -4.41 | 8.92 | 653 | 339.97 | 112.63 | 349.53 | 242.41 | 268.94 | 169.44 | 235.35 | 169.47 | PHASE |
| 283 | -2.43 | 18.55 | 652 | 6.64 | 1.82 | .55 | 1.81 | 1.18 | .14 | .44 | .23 | AMP |
| 284 | -4.74 | 12.74 | 653 | 358.21 | 119.92 | 2.72 | 257.59 | 285.91 | 227.29 | 266.58 | 289.85 | PHASE |
| 285 | -7.21 | 15.58 | 653 | 7.48 | .88 | .43 | 1.28 | 1.89 | .16 | .58 | .28 | AMP |
| 286 | -18.87 | 19.51 | 653 | 353.64 | 187.96 | 351.38 | 256.58 | 279.28 | 251.39 | 255.55 | 231.99 | PHASE |
| 287 | 4.83 | 7.43 | 653 | 8.58 | 1.11 | .18 | 1.52 | 1.25 | .17 | .49 | .21 | AMP |
| 288 | 2.43 | 7.57 | 652 | 353.95 | 85.89 | 353.15 | 238.15 | 261.58 | 262.32 | 242.15 | 171.46 | PHASE |
| 289 | .72 | 8.44 | 653 | 18.89 | 1.24 | .66 | 2.12 | 1.46 | .35 | .68 | .32 | AMP |
| 290 | -9.94 | 8.98 | 654 | 359.43 | 88.49 | 221.26 | 256.88 | 276.87 | 298.56 | 266.76 | 198.38 | PHASE |
| 291 | -2.83 | 18.21 | 653 | 12.16 | 1.35 | 1.65 | 2.75 | 1.76 | .65 | .88 | .33 | AMP |
| 292 | -4.68 | 11.99 | 653 | 355.61 | 72.78 | 228.46 | 244.48 | 256.19 | 272.85 | 239.77 | 194.28 | PHASE |
| 293 | -6.84 | 15.18 | 654 | 16.18 | 1.81 | 3.87 | 2.99 | 2.96 | 2.18 | 1.75 | .92 | AMP |
| 294 | -8.11 | 17.83 | 652 | 354.78 | 68.78 | 244.17 | 253.12 | 249.66 | 272.63 | 264.65 | 279.67 | PHASE |
| 295 | 1.84 | 6.81 | 653 | 5.53 | .98 | .39 | 1.14 | .99 | .29 | .33 | .89 | AMP |
| 296 | .22 | 7.22 | 653 | 336.92 | 185.62 | 322.82 | 239.38 | 283.83 | 72.89 | 257.78 | 145.93 | PHASE |
| 297 | -1.54 | 7.95 | 653 | 5.97 | .75 | .35 | 1.82 | .98 | .33 | .35 | .89 | AMP |
| 298 | -3.37 | 9.18 | 653 | 346.63 | 111.73 | 332.56 | 244.29 | 388.99 | 77.95 | 276.84 | 155.11 | PHASE |
| 299 | -4.28 | 18.15 | 652 | 6.63 | .68 | .24 | 1.11 | .92 | .27 | .42 | .18 | AMP |
| 300 | -5.42 | 18.96 | 652 | 347.38 | 188.81 | 388.45 | 224.86 | 278.19 | 54.86 | 237.96 | 153.42 | PHASE |
| 301 | | | | 7.27 | .58 | .19 | 1.19 | .86 | .38 | .58 | .18 | AMP |
| | | | | 358.79 | 89.48 | 268.14 | 217.73 | 269.77 | 45.72 | 287.52 | 196.77 | PHASE |
| | | | | 8.17 | .55 | .41 | 1.46 | 1.84 | .48 | .58 | .14 | AMP |
| | | | | 2.18 | 182.98 | 231.86 | 247.58 | 315.97 | 97.49 | 253.47 | 286.22 | PHASE |
| | | | | 9.27 | .75 | .84 | 1.72 | 1.26 | .46 | .62 | .18 | AMP |
| | | | | 2.11 | 181.51 | 285.63 | 238.38 | 387.94 | 72.81 | 229.29 | 162.46 | PHASE |
| | | | | 11.81 | 1.24 | 1.58 | 2.23 | 1.87 | .54 | .56 | .14 | AMP |
| | | | | 3.84 | 95.42 | 285.48 | 248.59 | 315.88 | 33.84 | 241.35 | 165.67 | PHASE |
| | | | | 12.23 | 1.51 | 2.81 | 2.58 | 2.39 | .67 | .59 | .88 | AMP |
| | | | | 1.57 | 98.83 | 288.85 | 248.87 | 318.88 | 3.37 | 242.56 | 182.42 | PHASE |
| | | | | 5.57 | .39 | .24 | .87 | .77 | .22 | .21 | .86 | AMP |
| | | | | 347.54 | 182.91 | 315.39 | 227.24 | 275.59 | 63.81 | 248.34 | 91.73 | PHASE |
| | | | | 6.18 | .28 | .16 | .95 | .85 | .28 | .31 | .83 | AMP |
| | | | | 351.26 | 98.48 | 381.98 | 223.14 | 268.84 | 44.19 | 226.48 | 347.89 | PHASE |
| | | | | 6.88 | .24 | .17 | 1.18 | 1.84 | .18 | .39 | .82 | AMP |
| | | | | 358.93 | 183.14 | 262.88 | 231.38 | 279.37 | 74.38 | 236.78 | 169.85 | PHASE |
| | | | | 7.71 | .29 | .32 | 1.42 | 1.14 | .21 | .43 | .85 | AMP |
| | | | | 2.86 | 118.28 | 284.52 | 226.48 | 275.74 | 81.32 | 219.33 | 178.38 | PHASE |
| | | | | 8.17 | .34 | .47 | 1.55 | 1.28 | .27 | .44 | .84 | AMP |
| | | | | 3.84 | 119.75 | 281.49 | 224.78 | 275.93 | 75.68 | 218.47 | 154.12 | PHASE |
| | | | | 8.98 | .58 | .79 | 1.68 | 1.26 | .48 | .47 | .83 | AMP |
| | | | | 5.87 | 124.32 | 199.39 | 238.78 | 291.88 | 79.59 | 286.82 | 228.47 | PHASE |

TABLE VII.- Continued

(d) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 11 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 279 | -4.22 | 24.25 | 653 | 16.67 | 6.19 | 3.1# | 2.65 | 3.87 | .85 | 2.86 | .31 | AMP |
| | | | | 136.95 | 323.33 | 287.34 | 148.62 | 216.36 | 345.1# | 236.92 | 181.58 | PHASE |
| 280 | -2.67 | 25.98 | 654 | 17.75 | 6.56 | 3.39 | 2.23 | 4.8# | .62 | 2.77 | .5# | AMP |
| | | | | 135.61 | 318.79 | 283.72 | 134.12 | 199.14 | 314.31 | 284.22 | 148.44 | PHASE |
| 281 | -1.17 | 27.36 | 653 | 18.88 | 7.22 | 3.44 | 1.9# | 4.15 | .43 | 2.82 | 1.89 | AMP |
| | | | | 142.82 | 315.44 | 387.1# | 15#.9# | 229.4# | 318.43 | 235.89 | 191.34 | PHASE |
| 282 | .49 | 29.44 | 653 | 28.24 | 7.69 | 3.31 | 1.71 | 4.89 | .59 | 3.85 | 1.39 | AMP |
| | | | | 143.27 | 318.36 | 389.96 | 15#.6# | 226.85 | 288.89 | 229.54 | 184.97 | PHASE |
| 283 | 2.11 | 31.18 | 652 | 21.76 | 8.28 | 3.51 | 1.32 | 4.84 | .72 | 2.94 | 1.78 | AMP |
| | | | | 148.84 | 299.11 | 385.21 | 146.29 | 286.31 | 271.82 | 283.18 | 146.42 | PHASE |
| 284 | 3.94 | 33.95 | 653 | 23.83 | 8.62 | 2.64 | 1.31 | 3.81 | .73 | 3.58 | 2.89 | AMP |
| | | | | 144.82 | 384.87 | 326.16 | 159.29 | 217.41 | 383.63 | 219.24 | 168.6# | PHASE |
| 285 | 5.55 | 36.35 | 653 | 25.54 | 9.56 | 1.64 | 1.57 | 1.5# | .37 | 3.99 | 3.32 | AMP |
| | | | | 148.87 | 296.77 | 319.96 | 89.89 | 166.28 | 339.7# | 183.71 | 142.74 | PHASE |
| 286 | 6.47 | 39.68 | 653 | 26.9# | 11.9# | 1.24 | 4.2# | 3.55 | .29 | 3.69 | 3.36 | AMP |
| | | | | 141.63 | 381.2# | 335.25 | 71.72 | 187.95 | 112.86 | 184.52 | 163.85 | PHASE |
| 287 | -2.98 | 22.17 | 653 | 16.38 | 5.53 | 2.98 | 2.52 | 3.68 | .43 | 2.28 | 1.35 | AMP |
| | | | | 134.59 | 325.44 | 293.23 | 133.61 | 228.15 | 8.37 | 193.87 | 238.37 | PHASE |
| 288 | -1.33 | 24.25 | 652 | 17.38 | 6.12 | 3.53 | 2.25 | 3.66 | .56 | 2.31 | 1.85 | AMP |
| | | | | 139.79 | 324.29 | 318.44 | 136.84 | 236.89 | 22.12 | 288.93 | 32.19 | PHASE |
| 289 | .34 | 25.98 | 653 | 18.61 | 6.86 | 3.95 | 2.3# | 3.59 | .46 | 2.36 | .74 | AMP |
| | | | | 136.84 | 389.97 | 382.62 | 118.84 | 216.79 | 5.9# | 166.37 | 348.67 | PHASE |
| 290 | 1.86 | 27.71 | 654 | 19.75 | 7.5# | 4.22 | 1.97 | 3.48 | .55 | 2.61 | .59 | AMP |
| | | | | 137.54 | 382.74 | 385.83 | 97.94 | 287.93 | 356.85 | 158.48 | 319.75 | PHASE |
| 291 | 3.72 | 38.48 | 653 | 21.13 | 8.48 | 4.37 | 1.63 | 4.88 | .53 | 2.93 | 1.4# | AMP |
| | | | | 145.87 | 311.3# | 335.93 | 119.63 | 245.84 | 37.21 | 283.56 | 7.4# | PHASE |
| 292 | 5.34 | 32.56 | 653 | 22.82 | 9.21 | 4.16 | 4.61 | 5.59 | .38 | 3.88 | .81 | AMP |
| | | | | 143.74 | 382.49 | 338.68 | 88.81 | 235.68 | 24.28 | 176.37 | 14.95 | PHASE |
| 293 | 6.97 | 35.68 | 654 | 24.49 | 18.83 | 4.42 | 1.44 | 5.11 | .77 | 3.27 | .55 | AMP |
| | | | | 144.17 | 298.53 | 329.64 | 59.15 | 244.51 | 16.14 | 167.88 | 178.15 | PHASE |
| 294 | 7.75 | 36.72 | 652 | 25.36 | 18.45 | 4.47 | 1.88 | 5.56 | .83 | 3.33 | .56 | AMP |
| | | | | 142.18 | 293.46 | 323.21 | 38.25 | 243.38 | 3.54 | 147.38 | 112.77 | PHASE |
| 295 | .52 | 21.82 | 653 | 16.87 | 5.16 | 3.53 | 1.84 | 3.53 | .35 | 1.32 | .77 | AMP |
| | | | | 139.28 | 323.19 | 389.81 | 129.47 | 282.75 | 62.95 | 169.17 | 358.52 | PHASE |
| 296 | 2.88 | 23.55 | 653 | 17.19 | 5.88 | 4.4 | 2.88 | 3.86 | .35 | 1.53 | .77 | AMP |
| | | | | 139.81 | 315.88 | 312.95 | 117.61 | 189.13 | 46.11 | 163.73 | 324.67 | PHASE |
| 297 | 3.68 | 26.33 | 653 | 18.48 | 6.91 | 4.66 | 2.14 | 4.46 | .34 | 1.49 | .53 | AMP |
| | | | | 144.36 | 317.81 | 331.88 | 122.48 | 284.77 | 51.16 | 172.17 | 353.62 | PHASE |
| 299 | 5.4# | 29.44 | 653 | 19.78 | 7.86 | 5.49 | 2.28 | 4.82 | .38 | 1.68 | .67 | AMP |
| | | | | 145.89 | 318.71 | 337.82 | 113.63 | 281.96 | 46.22 | 157.63 | 389.67 | PHASE |
| 300 | 6.27 | 38.14 | 652 | 28.54 | 8.41 | 5.66 | 5.48 | 5.85 | .67 | 2.67 | .67 | AMP |
| | | | | 144.88 | 387.87 | 387.87 | 186.74 | 281.29 | 31.51 | 146.14 | 385.28 | PHASE |
| 301 | 7.3# | 32.56 | 652 | 21.69 | 9.18 | 5.92 | 2.53 | 5.23 | .43 | 1.91 | .77 | AMP |
| | | | | 146.52 | 386.45 | 343.69 | 184.19 | 211.53 | 49.2# | 142.65 | 292.95 | PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------|-------|
| RUN NO | | 11 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 279 | 16.21 | 22.7# | 653 | 6.46 | 2.77 | 3.29 | 2.55 | 2.42 | 3.47 | 1.22 | .63 | AMP |
| | | | | 174.25 | 328.88 | 285.66 | 88.14 | 385.71 | 189.33 | 282.62 | 87.99 | PHASE |
| 280 | 17.65 | 24.47 | 654 | 5.82 | 2.63 | 3.62 | 2.91 | 3.38 | 6.89 | 2.21 | 1.4# | AMP |
| | | | | 185.85 | 325.11 | 286.28 | 43.36 | 261.9# | 198.92 | 243.77 | 83.23 | PHASE |
| 281 | 18.72 | 21.54 | 653 | 5.21 | 2.17 | 3.88 | 2.14 | 5.15 | 5.6# | 1.87 | 1.48 | AMP |
| | | | | 286.2# | 334.79 | 385.22 | 52.23 | 286.47 | 238.47 | 319.63 | 139.65 | PHASE |
| 282 | 19.69 | 23.55 | 653 | 4.49 | 2.34 | 4.52 | 5.38 | 6.41 | 7.23 | 1.21 | 1.91 | AMP |
| | | | | 226.5# | 337.46 | 386.81 | 51.12 | 298.22 | 244.28 | 385.73 | 125.84 | PHASE |
| 283 | 28.36 | 31.42 | 652 | 4.46 | 2.89 | 5.88 | 6.42 | 8.87 | 8.7# | 1.55 | 2.82 | AMP |
| | | | | 252.3# | 327.77 | 299.3# | 36.29 | 288.85 | 255.31 | 243.24 | 98.76 | PHASE |
| 284 | 21.25 | 32.97 | 653 | 5.12 | 1.82 | 6.4# | 7.42 | 7.21 | 8.67 | 3.37 | 2.21 | AMP |
| | | | | 286.8# | 338.22 | 313.85 | 47.89 | 319.69 | 296.8# | 247.42 | 131.21 | PHASE |
| 285 | 21.98 | 48.61 | 653 | 5.15 | 2.82 | 6.33 | 8.83 | 7.2# | 9.66 | 5.68 | .66 | AMP |
| | | | | 311.82 | 323.31 | 295.4# | 27.59 | 386.33 | 293.19 | 223.91 | 97.88 | PHASE |
| 286 | 23.21 | 49.53 | 653 | 8.83 | 2.34 | 8.4# | 8.91 | 6.72 | 7.37 | 7.88 | .98 | AMP |
| | | | | 348.23 | 228.96 | 298.66 | 21.36 | 351.36 | 342.88 | 232.61 | 248.57 | PHASE |
| 287 | 17.55 | 19.23 | 653 | 6.11 | 2.48 | 2.96 | 3.87 | 2.45 | 1.65 | 1.88 | 1.39 | AMP |
| | | | | 168.88 | 325.31 | 294.8# | 61.59 | 284.15 | 192.32 | 255.63 | 43.88 | PHASE |
| 288 | 17.2# | 19.36 | 652 | 5.21 | 2.56 | 3.6# | 5.58 | 4.86 | 2.75 | 1.36 | 1.39 | AMP |
| | | | | 177.24 | 333.48 | 311.74 | 51.55 | 273.34 | 243.42 | 283.52 | 78.89 | PHASE |
| 289 | 18.58 | 19.3# | 653 | 4.13 | 2.61 | 4.26 | 5.85 | 5.66 | 1.76 | .79 | 1.52 | AMP |
| | | | | 189.88 | 324.85 | 296.57 | 24.69 | 265.29 | 199.97 | 224.63 | 37.86 | PHASE |
| 290 | 28.16 | 22.42 | 654 | 3.38 | 2.54 | 5.26 | 6.85 | 5.82 | 3.26 | 1.88 | 1.86 | AMP |
| | | | | 218.66 | 315.89 | 293.27 | 14.7# | 265.99 | 186.79 | 196.69 | 32.29 | PHASE |
| 291 | 21.43 | 27.18 | 653 | 3.38 | 2.71 | 7.84 | 7.61 | 5.91 | 5.76 | 2.52 | .8# | AMP |
| | | | | 258.42 | 317.87 | 317.11 | 48.38 | 289.8# | 263.37 | 248.19 | 188.19 | PHASE |
| 292 | 23.16 | 32.35 | 653 | 4.47 | 2.85 | 8.62 | 8.62 | 7.89 | 7.64 | 3.25 | 1.66 | AMP |
| | | | | 283.4# | 318.93 | 387.28 | 31.82 | 274.36 | 278.43 | 225.47 | 76.71 | PHASE |
| 293 | 24.15 | 35.66 | 654 | 6.39 | 2.37 | 9.43 | 8.81 | 7.63 | 7.87 | 4.87 | .67 | AMP |
| | | | | 388.86 | 385.24 | 388.22 | 24.91 | 267.41 | 295.98 | 231.56 | 53.15 | PHASE |
| 294 | 24.7# | 39.86 | 652 | 6.74 | 1.53 | 9.88 | 7.62 | 9.18 | 7.18 | 3.41 | 1.15 | AMP |
| | | | | 317.13 | 277.56 | 287.88 | 9.47 | 247.62 | 298.19 | 225.23 | 14.78 | PHASE |
| 295 | 18.8# | 19.38 | 653 | 4.48 | 2.12 | 3.49 | 4.27 | 4.8# | 2.51 | 1.2 | 2.11 | AMP |
| | | | | 167.38 | 322.88 | 386.54 | 43.27 | 248.3# | 246.87 | 335.84 | 47.34 | PHASE |
| 296 | 19.54 | 18.9# | 653 | 3.18 | 2.15 | 4.31 | 5.59 | 2.81 | 3.1# | .93 | 1.53 | AMP |
| | | | | 179.62 | 318.29 | 299.45 | 32.25 | 229.59 | 221.2# | 187.22 | 28.66 | PHASE |
| 297 | 1.88 | 23.65 | 653 | 2.75 | 2.75 | 5.78 | 7.31 | 3.32 | 5.69 | 2.29 | 1.55 | AMP |
| | | | | 289.87 | 318.64 | 311.71 | 41.53 | 242.42 | 249.16 | 238.57 | 68.3# | PHASE |
| 299 | 22.75 | 27.14 | 653 | 2.23 | 3.23 | 7.61 | 9.15 | 4.84 | 7.81 | 2.78 | 1.2 | AMP |
| | | | | 271.89 | 313.42 | 318.69 | 35.36 | 228.15 | 248.14 | 238.34 | 59.62 | PHASE |
| 300 | 23.19 | 29.27 | 652 | 2.94 | 3.64 | 4.41 | 9.54 | 4.46 | 7.51 | 2.87 | 1.27 | AMP |
| | | | | 288.82 | 311.34 | 387.94 | 29.83 | 215.3# | 248.69 | 248.57 | 44.39 | PHASE |
| 301 | 23.83 | 31.95 | 652 | 4.21 | 3.93 | 9.64 | 18.89 | 5.58 | 7.65 | 2.82 | 1.16 | AMP |
| | | | | 385.19 | 311.71 | 318.85 | 28.64 | 217.85 | 259.21 | 261.31 | 38.93 | PHASE |

TABLE VII.- Continued

(d) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 11 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | 1.15 | 5.58 | 653 | 3.58 | 1.38 | .24 | 298.59 | .88 | .11 | .52 | .23 AMP |
| | | | | 323.83 | 115.81 | .81 | 298.83 | 387.18 | 287.98 | 38.87 | 387.89 PHASE |
| 280 | -.44 | 5.79 | 654 | 3.85 | 1.28 | .28 | 279.55 | .73 | .87 | .24 | .24 AMP |
| | | | | 328.95 | 112.29 | 347.99 | 279.39 | 283.38 | 196.77 | 9.44 | 282.95 PHASE |
| 281 | -2.85 | 6.72 | 653 | 4.25 | 1.17 | .23 | 279.56 | .76 | .85 | .48 | .28 AMP |
| | | | | 342.38 | 126.24 | 348.55 | 292.42 | 386.65 | 278.97 | 33.28 | 329.94 PHASE |
| 282 | -3.59 | 6.55 | 653 | 4.77 | 1.05 | .19 | 281.22 | .75 | .88 | .54 | .32 AMP |
| | | | | 348.19 | 131.57 | 327.27 | 281.22 | 382.81 | 317.68 | 38.79 | 313.46 PHASE |
| 283 | -5.87 | 6.98 | 652 | 5.34 | 1.33 | .18 | 258.58 | .78 | .14 | .55 | .37 AMP |
| | | | | 358.91 | 138.32 | 278.35 | 258.88 | 275.37 | 267.21 | 356.85 | 296.38 PHASE |
| 284 | -6.68 | 7.66 | 653 | 6.15 | .97 | .31 | 254.38 | .81 | .24 | .66 | .41 AMP |
| | | | | 358.82 | 153.74 | 245.45 | 254.38 | 279.42 | 288.84 | 14.58 | 322.81 PHASE |
| 285 | -7.95 | 9.25 | 653 | 7.84 | .99 | .54 | 222.98 | 1.14 | .48 | .64 | .31 AMP |
| | | | | 356.26 | 168.88 | 221.81 | 222.98 | 239.34 | 265.58 | 347.62 | 282.42 PHASE |
| 286 | -9.88 | 12.14 | 653 | 8.74 | .75 | .67 | 224.98 | 1.72 | 1.82 | .68 | .13 AMP |
| | | | | 353.78 | 172.14 | 198.88 | 235.43 | 266.59 | 345.36 | 197.21 | 197.21 PHASE |
| 287 | .52 | 4.98 | 653 | 3.32 | 1.89 | .82 | 272.71 | .67 | .12 | .37 | .12 AMP |
| | | | | 321.71 | 112.41 | 75.62 | 272.71 | 293.63 | 149.67 | 18.31 | 246.67 PHASE |
| 288 | -.98 | 5.28 | 652 | 3.62 | .99 | .83 | 285.39 | .68 | .14 | .80 | .20 AMP |
| | | | | 335.79 | 126.58 | 117.86 | 285.39 | 386.75 | 132.86 | 33.25 | 283.36 PHASE |
| 289 | -2.56 | 5.98 | 653 | 4.14 | .92 | .89 | 259.88 | .61 | .11 | .41 | .87 AMP |
| | | | | 339.79 | 126.57 | 125.88 | 259.88 | 277.48 | 87.28 | 345.58 | 264.53 PHASE |
| 290 | -4.84 | 6.75 | 654 | 4.67 | .87 | .19 | 242.84 | .61 | .11 | .44 | .12 AMP |
| | | | | 345.66 | 131.87 | 143.78 | 242.84 | 268.68 | 65.81 | 342.47 | 247.28 PHASE |
| 291 | -5.72 | 7.69 | 653 | 5.36 | .95 | .38 | 257.74 | .76 | .25 | .45 | .13 AMP |
| | | | | 358.73 | 151.35 | 181.48 | 257.74 | 318.32 | 79.66 | 31.45 | 279.22 PHASE |
| 292 | -7.28 | 8.32 | 653 | 6.88 | 1.86 | .59 | 238.59 | .82 | .31 | .43 | .14 AMP |
| | | | | .81 | 158.85 | 173.83 | 238.59 | 298.48 | 53.75 | 6.21 | 265.76 PHASE |
| 293 | -8.62 | 9.13 | 654 | 6.98 | 1.89 | .67 | 237.17 | .95 | .38 | .55 | .83 AMP |
| | | | | 3.81 | 157.26 | 173.28 | 237.17 | 299.24 | 16.59 | 359.54 | 294.84 PHASE |
| 294 | -9.36 | 9.78 | 652 | 7.48 | 1.83 | .61 | 232.71 | .85 | .53 | .56 | .86 AMP |
| | | | | .77 | 158.14 | 161.14 | 232.71 | 294.87 | 354.68 | 341.36 | 144.62 PHASE |
| 295 | -1.57 | 4.34 | 653 | 3.23 | .64 | .88 | 263.35 | .46 | .88 | .19 | .82 AMP |
| | | | | 338.21 | 138.95 | 163.62 | 263.35 | 285.51 | 99.88 | 354.24 | 328.18 PHASE |
| 296 | -3.83 | 5.13 | 653 | 3.78 | .68 | .17 | 258.18 | .51 | .85 | .22 | .82 AMP |
| | | | | 345.26 | 148.41 | 147.44 | 258.18 | 278.68 | 68.38 | 352.27 | 254.88 PHASE |
| 297 | -4.62 | 5.86 | 653 | 4.29 | .66 | .32 | 246.23 | .66 | .12 | .18 | .87 AMP |
| | | | | 358.57 | 153.81 | 172.83 | 246.23 | 286.97 | 53.48 | 15.78 | 278.38 PHASE |
| 299 | -6.24 | 6.88 | 653 | 5.88 | .78 | .56 | 233.57 | .74 | .19 | .16 | .85 AMP |
| | | | | .22 | 154.12 | 168.25 | 233.57 | 283.21 | 48.69 | 28.78 | 272.23 PHASE |
| 300 | -7.85 | 7.31 | 652 | 5.38 | .65 | .86 | 229.47 | .88 | .24 | .12 | .87 AMP |
| | | | | 1.78 | 153.64 | 168.16 | 229.47 | 282.28 | 36.83 | 23.95 | 236.65 PHASE |
| 301 | -8.81 | 7.93 | 652 | 5.95 | 1.85 | .84 | 231.12 | .97 | .33 | .88 | .86 AMP |
| | | | | 5.21 | 155.64 | 171.62 | 231.12 | 298.91 | 38.52 | 53.41 | 238.26 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 11 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 279 | -3.39 | 9.81 | 653 | 6.81 | 1.88 | .56 | 1.38 | 1.36 | .44 | 1.28 | .23 AMP |
| | | | | 172.28 | 289.76 | 173.88 | 76.92 | 138.67 | 129.48 | 58.98 | 9.37 PHASE |
| 280 | -1.76 | 18.72 | 654 | 6.43 | 1.88 | .74 | 1.26 | 1.36 | .35 | 1.34 | .41 AMP |
| | | | | 174.71 | 276.85 | 159.98 | 59.83 | 189.58 | 89.21 | 26.19 | 334.67 PHASE |
| 281 | -.16 | 11.71 | 653 | 7.24 | .99 | .68 | 1.37 | 1.43 | .43 | 1.32 | .65 AMP |
| | | | | 183.59 | 277.21 | 169.18 | 88.36 | 139.16 | 85.61 | 52.56 | 16.17 PHASE |
| 282 | 1.55 | 13.38 | 653 | 8.43 | 1.15 | .69 | 1.41 | 1.36 | .65 | 1.52 | .57 AMP |
| | | | | 187.84 | 268.87 | 137.43 | 82.48 | 128.89 | 86.48 | 49.49 | 356.62 PHASE |
| 283 | 3.58 | 15.85 | 652 | 18.32 | 1.57 | .69 | 1.61 | 1.72 | .87 | 1.45 | .78 AMP |
| | | | | 186.38 | 265.36 | 187.89 | 61.35 | 98.75 | 98.81 | 32.38 | 329.31 PHASE |
| 284 | 5.84 | 18.87 | 653 | 12.92 | 1.94 | 1.68 | 1.94 | 2.38 | .94 | 1.81 | .91 AMP |
| | | | | 193.87 | 286.29 | 81.75 | 77.82 | 185.85 | 111.58 | 42.58 | 349.84 PHASE |
| 285 | 8.58 | 24.37 | 653 | 16.56 | 2.27 | 2.99 | 2.33 | 3.19 | .91 | 2.19 | .71 AMP |
| | | | | 198.43 | 284.97 | 65.19 | 63.93 | 83.58 | 78.43 | 24.89 | 334.13 PHASE |
| 286 | 12.58 | 33.21 | 653 | 22.42 | 2.15 | 5.84 | 2.31 | 5.48 | 2.72 | 2.82 | .92 AMP |
| | | | | 191.66 | 318.57 | 77.89 | 54.66 | 69.19 | 79.65 | 62.56 | 96.87 PHASE |
| 287 | -2.23 | 7.89 | 653 | 4.88 | .46 | .85 | 1.48 | 1.27 | .38 | .97 | .11 AMP |
| | | | | 173.38 | 283.81 | 132.38 | 58.34 | 138.36 | 164.61 | 32.59 | 157.22 PHASE |
| 288 | -.84 | 8.81 | 652 | 5.51 | .29 | .97 | 1.38 | 1.22 | .31 | 1.85 | .19 AMP |
| | | | | 188.95 | 265.21 | 151.88 | 63.67 | 145.22 | 163.82 | 47.88 | 82.86 PHASE |
| 289 | .65 | 18.36 | 653 | 6.27 | .26 | .93 | 1.52 | 1.38 | .21 | 1.88 | .29 AMP |
| | | | | 182.26 | 224.25 | 126.58 | 46.39 | 127.16 | 118.24 | 358.67 | 22.86 PHASE |
| 290 | 2.88 | 11.71 | 654 | 7.33 | .38 | .87 | 1.57 | 1.29 | .21 | 1.34 | .16 AMP |
| | | | | 184.18 | 289.77 | 118.81 | 48.15 | 117.42 | 99.54 | 354.58 | 348.86 PHASE |
| 291 | 3.88 | 14.18 | 653 | 8.97 | .43 | 1.86 | 1.79 | 1.34 | .29 | 1.45 | .15 AMP |
| | | | | 195.74 | 253.81 | 93.88 | 73.64 | 162.82 | 181.86 | 34.83 | 63.38 PHASE |
| 292 | 5.78 | 16.25 | 653 | 11.83 | .75 | 1.61 | 2.88 | 1.62 | .45 | 1.51 | .16 AMP |
| | | | | 195.43 | 277.94 | 64.77 | 64.93 | 147.63 | 99.54 | 7.32 | 187.77 PHASE |
| 293 | 7.97 | 21.26 | 654 | 14.21 | 1.67 | 2.96 | 2.39 | 2.35 | .74 | 1.55 | .27 AMP |
| | | | | 197.28 | 283.19 | 54.82 | 75.69 | 142.95 | 135.28 | 359.32 | 45.86 PHASE |
| 294 | 9.32 | 24.37 | 652 | 16.36 | 2.22 | 3.82 | 2.83 | 2.85 | .85 | 1.26 | .85 AMP |
| | | | | 194.79 | 276.43 | 43.84 | 78.97 | 131.18 | 138.98 | 346.86 | 96.17 PHASE |
| 295 | .48 | 7.34 | 653 | 4.77 | .21 | .99 | 1.12 | 1.31 | .21 | .58 | .23 AMP |
| | | | | 183.95 | 86.39 | 142.37 | 45.94 | 125.89 | 122.57 | 1.54 | 49.29 PHASE |
| 296 | 1.74 | 8.42 | 653 | 5.59 | .29 | .99 | 1.13 | 1.47 | .22 | .88 | .24 AMP |
| | | | | 187.75 | 187.49 | 134.17 | 44.13 | 113.89 | 121.89 | 358.98 | 45.81 PHASE |
| 297 | 3.17 | 18.36 | 653 | 6.69 | .37 | .98 | 1.45 | 1.53 | .38 | .86 | .19 AMP |
| | | | | 194.15 | 139.77 | 134.86 | 57.66 | 131.74 | 96.69 | 14.29 | 43.44 PHASE |
| 299 | 4.69 | 11.79 | 653 | 8.83 | .37 | .84 | 1.67 | 1.64 | .38 | .93 | .38 AMP |
| | | | | 197.59 | 146.27 | 188.65 | 56.78 | 128.43 | 73.89 | 359.27 | 51.12 PHASE |
| 300 | 5.46 | 13.14 | 652 | 8.91 | .32 | .93 | 1.87 | 1.84 | .38 | .95 | .28 AMP |
| | | | | 197.98 | 158.48 | 75.23 | 55.97 | 124.48 | 67.32 | 346.87 | 45.12 PHASE |
| 301 | 6.45 | 15.18 | 652 | 18.85 | 1.38 | 1.35 | 2.18 | 2.88 | .15 | 1.86 | .32 AMP |
| | | | | 288.68 | 192.91 | 61.49 | 62.51 | 133.88 | 68.36 | 344.35 | 59.71 PHASE |

TABLE VII.- Continued

(e) $\mu = 0.40$; $M_T = 0.62$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CG/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 302 | -0.5 | 5.9 | 6.1 | .02471 | -.00169 | .00305 |
| 303 | -1.8 | 7.6 | 8.0 | .03240 | -.00368 | .00578 |
| 304 | -1.8 | 9.0 | 10.0 | .04186 | -.00562 | .00477 |
| 305 | -2.4 | 9.9 | 11.9 | .05100 | -.00764 | .00580 |
| 306 | -2.7 | 10.5 | 14.0 | .06595 | -.00972 | .00711 |
| 310 | -1.1 | 5.2 | .0 | .03103 | .00104 | .00161 |
| 311 | -1.4 | 6.7 | 2.0 | .04180 | .00137 | .00185 |
| 312 | -2.0 | 7.7 | 3.9 | .05294 | .00109 | .00216 |
| 313 | -2.1 | 9.1 | 5.9 | .06503 | .00061 | .00267 |
| 314 | -2.5 | 10.2 | 7.9 | .07320 | .00026 | .00346 |
| 315 | -2.8 | 10.8 | 8.9 | .07758 | -.00009 | .00390 |
| 316 | -3.1 | 11.3 | 10.0 | .08343 | -.00035 | .00442 |
| 318 | -.7 | 3.3 | 2.0 | .02151 | -.00008 | .00226 |
| 319 | -1.2 | 6.6 | 3.9 | .03248 | -.00131 | .00284 |
| 320 | -1.3 | 8.0 | 5.9 | .04200 | -.00243 | .00346 |
| 321 | -1.8 | 9.1 | 8.0 | .05411 | -.00381 | .00418 |
| 322 | -2.5 | 10.1 | 9.9 | .06370 | -.00513 | .00492 |
| 323 | -2.7 | 10.7 | 10.9 | .06908 | -.00573 | .00543 |

TABLE VII.- Continued

(e) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 12 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 48.38 | 18.16 | 596 | 6.48 | 5.88 | 4.34 | 1.95 | 6.16 | 1.28 | 1.26 | .87 AMP |
| | | | | 151.94 | 318.27 | 348.41 | 356.14 | 56.36 | 321.26 | 258.52 | 53.74 PHASE |
| 303 | 49.58 | 17.72 | 595 | 6.77 | 5.72 | 4.99 | 2.21 | 5.83 | 1.82 | 1.84 | .55 AMP |
| | | | | 148.91 | 306.61 | 343.53 | 338.79 | 41.24 | 313.48 | 225.89 | 348.88 PHASE |
| 304 | 50.81 | 19.88 | 596 | 7.58 | 6.83 | 5.52 | 2.78 | 6.36 | .82 | 1.12 | .98 AMP |
| | | | | 137.68 | 311.21 | 351.48 | 333.81 | 49.71 | 337.96 | 236.58 | 341.91 PHASE |
| 305 | 52.81 | 19.58 | 595 | 8.26 | 6.29 | 5.78 | 3.33 | 6.53 | .49 | 1.88 | 1.19 AMP |
| | | | | 138.73 | 315.59 | 355.88 | 331.96 | 58.31 | 338.58 | 233.58 | 349.88 PHASE |
| 306 | 53.39 | 21.78 | 593 | 9.17 | 6.59 | 6.28 | 4.16 | 6.71 | .51 | 1.81 | 1.34 AMP |
| | | | | 124.21 | 318.46 | 353.38 | 324.43 | 65.71 | 321.13 | 235.87 | 327.23 PHASE |
| 310 | 47.16 | 28.83 | 598 | 7.55 | 6.65 | 5.53 | 2.24 | 5.49 | 1.17 | 2.24 | 3.84 AMP |
| | | | | 144.58 | 314.18 | 24.89 | 353.96 | 186.77 | 344.52 | 231.29 | 92.48 PHASE |
| 311 | 48.38 | 23.11 | 589 | 8.46 | 7.16 | 4.68 | 2.48 | 5.94 | 1.81 | 2.22 | 4.27 AMP |
| | | | | 141.18 | 312.38 | 28.28 | 344.25 | 95.36 | 335.67 | 224.62 | 76.47 PHASE |
| 312 | 49.55 | 22.38 | 589 | 8.97 | 7.66 | 5.57 | 2.55 | 5.76 | 1.18 | 1.83 | 3.15 AMP |
| | | | | 139.17 | 313.93 | 23.26 | 345.38 | 94.91 | 337.66 | 229.86 | 77.49 PHASE |
| 313 | 50.63 | 23.88 | 589 | 9.35 | 7.95 | 5.78 | 2.61 | 5.68 | 1.18 | 1.79 | 2.68 AMP |
| | | | | 134.83 | 314.38 | 12.17 | 319.53 | 89.84 | 338.68 | 221.95 | 62.83 PHASE |
| 314 | 51.58 | 23.98 | 598 | 9.89 | 8.77 | 6.35 | 3.21 | 6.23 | .88 | 1.61 | 2.56 AMP |
| | | | | 128.15 | 315.51 | .18 | 296.95 | 89.15 | 7.95 | 197.26 | 46.84 PHASE |
| 315 | 51.89 | 24.88 | 589 | 10.18 | 9.14 | 6.33 | 3.46 | 6.62 | 1.85 | 1.53 | 2.21 AMP |
| | | | | 124.36 | 315.29 | 354.75 | 288.84 | 98.77 | 19.55 | 187.38 | 28.25 PHASE |
| 316 | 52.28 | 24.11 | 592 | 10.13 | 9.61 | 6.44 | 4.11 | 6.86 | 1.84 | 1.73 | 2.88 AMP |
| | | | | 118.58 | 314.78 | 339.25 | 278.27 | 86.68 | 27.56 | 163.61 | 2.88 PHASE |
| 318 | 47.61 | 18.91 | 589 | 6.67 | 5.88 | 3.34 | 1.46 | 5.88 | 1.68 | 1.83 | 1.53 AMP |
| | | | | 147.85 | 311.73 | 351.85 | 359.84 | 76.82 | 338.74 | 248.97 | 83.84 PHASE |
| 319 | 48.89 | 19.12 | 598 | 7.21 | 6.35 | 4.58 | 1.89 | 5.81 | 1.35 | 1.58 | 1.38 AMP |
| | | | | 148.38 | 322.87 | 8.96 | 5.39 | 98.61 | 354.14 | 288.23 | 187.74 PHASE |
| 320 | 50.88 | 28.87 | 589 | 7.92 | 6.71 | 5.46 | 2.88 | 5.98 | 1.38 | 1.44 | .63 AMP |
| | | | | 141.53 | 315.34 | 3.84 | 343.77 | 74.35 | 331.83 | 243.68 | 35.94 PHASE |
| 321 | 51.29 | 28.29 | 598 | 8.33 | 7.88 | 6.17 | 2.62 | 5.96 | 1.22 | 1.49 | 1.27 AMP |
| | | | | 138.86 | 321.84 | 9.54 | 343.12 | 86.27 | 354.81 | 263.19 | 38.88 PHASE |
| 322 | 52.36 | 28.92 | 589 | 8.78 | 7.23 | 6.34 | 3.82 | 6.38 | 1.26 | 1.34 | 1.74 AMP |
| | | | | 127.98 | 312.28 | 351.31 | 313.28 | 62.71 | 335.52 | 243.46 | 345.23 PHASE |
| 323 | 52.89 | 22.36 | 598 | 9.19 | 7.39 | 5.54 | 3.34 | 6.61 | 1.18 | 1.16 | 1.79 AMP |
| | | | | 126.74 | 314.95 | 355.98 | 315.18 | 72.15 | 345.18 | 248.51 | 352.78 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 12 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 45.78 | 37.28 | 596 | 11.89 | 6.85 | 9.27 | 6.68 | 2.86 | 12.52 | 3.24 | .71 AMP |
| | | | | 308.29 | 131.79 | 218.13 | 48.85 | 311.86 | 37.53 | 19.58 | 88.17 PHASE |
| 303 | 46.83 | 42.44 | 595 | 16.37 | 9.38 | 15.93 | 9.16 | 3.58 | 5.83 | 4.14 | 1.87 AMP |
| | | | | 322.81 | 137.13 | 288.69 | 32.87 | 269.93 | 34.82 | 27.89 | 55.94 PHASE |
| 304 | 48.78 | 66.77 | 596 | 27.74 | 13.13 | 24.63 | 12.86 | 3.38 | 4.17 | 3.88 | 1.66 AMP |
| | | | | 346.12 | 145.82 | 214.62 | 37.68 | 271.88 | 386.74 | 59.47 | 65.14 PHASE |
| 305 | 50.11 | 94.46 | 595 | 39.26 | 15.95 | 33.36 | 15.51 | 3.78 | 6.88 | 2.92 | 2.13 AMP |
| | | | | 356.86 | 158.68 | 224.88 | 39.89 | 231.41 | 284.62 | 56.94 | 84.42 PHASE |
| 306 | 50.55 | 125.87 | 593 | 56.78 | 28.87 | 44.94 | 17.99 | 5.81 | 6.16 | 5.48 | 2.79 AMP |
| | | | | 5.53 | 156.89 | 233.89 | 41.28 | 227.88 | 289.33 | 56.78 | 181.68 PHASE |
| 310 | 45.76 | 41.91 | 598 | 21.52 | 7.56 | 7.23 | 5.78 | 3.98 | 4.25 | 3.83 | 2.42 AMP |
| | | | | 268.78 | 119.15 | 249.65 | 72.65 | 74.36 | 198.79 | 93.41 | 154.78 PHASE |
| 311 | 44.36 | 45.78 | 589 | 26.79 | 11.88 | 18.58 | 4.75 | 2.34 | 4.46 | 4.76 | 2.87 AMP |
| | | | | 288.86 | 128.38 | 248.41 | 68.69 | 22.18 | 58.48 | 86.54 | 145.64 PHASE |
| 312 | 43.22 | 65.35 | 589 | 33.81 | 17.16 | 13.38 | 7.93 | 4.87 | 7.82 | 6.89 | 2.72 AMP |
| | | | | 389.36 | 125.75 | 242.35 | 53.54 | 6.99 | 114.48 | 182.44 | 154.19 PHASE |
| 313 | 42.62 | 88.12 | 589 | 43.23 | 28.46 | 18.64 | 9.75 | 6.23 | 6.71 | 9.44 | 3.43 AMP |
| | | | | 323.23 | 128.86 | 233.29 | 42.73 | 356.74 | 153.39 | 113.63 | 135.32 PHASE |
| 314 | 42.75 | 93.86 | 598 | 54.14 | 25.64 | 24.11 | 12.87 | 5.86 | 11.92 | 12.13 | 4.93 AMP |
| | | | | 335.38 | 138.97 | 231.57 | 38.13 | 351.83 | 176.73 | 118.31 | 116.16 PHASE |
| 315 | 42.56 | 187.49 | 589 | 59.56 | 27.37 | 28.83 | 11.28 | 5.47 | 14.21 | 12.46 | 5.29 AMP |
| | | | | 348.19 | 132.98 | 232.23 | 32.51 | 335.29 | 189.19 | 121.18 | 186.71 PHASE |
| 316 | 42.81 | 128.42 | 592 | 67.98 | 26.98 | 31.32 | 9.75 | 7.85 | 17.64 | 11.83 | 5.38 AMP |
| | | | | 344.58 | 131.58 | 229.51 | 8.22 | 385.67 | 196.28 | 129.19 | 98.93 PHASE |
| 318 | 43.54 | 34.74 | 589 | 13.56 | 5.28 | 5.58 | 5.82 | 1.98 | 6.15 | 3.51 | 1.18 AMP |
| | | | | 262.29 | 114.73 | 238.57 | 58.72 | 45.81 | 28.49 | 43.71 | 128.87 PHASE |
| 319 | 43.98 | 41.86 | 598 | 17.68 | 8.97 | 8.31 | 5.88 | 2.21 | 11.81 | 4.54 | 1.31 AMP |
| | | | | 295.75 | 122.19 | 243.72 | 69.88 | 12.19 | 73.44 | 74.89 | 166.88 PHASE |
| 320 | 44.62 | 53.43 | 589 | 27.27 | 14.13 | 14.57 | 9.22 | 5.11 | 7.24 | 6.67 | 1.62 AMP |
| | | | | 325.38 | 127.22 | 219.52 | 38.77 | 346.82 | 88.44 | 71.21 | 112.68 PHASE |
| 321 | 45.37 | 68.14 | 598 | 37.45 | 17.92 | 22.69 | 12.34 | 5.54 | 2.54 | 6.29 | 2.87 AMP |
| | | | | 338.36 | 148.69 | 231.19 | 52.54 | 12.18 | 114.18 | 188.11 | 135.49 PHASE |
| 322 | 45.45 | 94.23 | 589 | 48.96 | 28.31 | 38.65 | 14.86 | 4.29 | .32 | 6.23 | 2.73 AMP |
| | | | | 341.63 | 134.79 | 221.68 | 36.88 | 341.18 | 85.87 | 77.93 | 98.17 PHASE |
| 323 | 45.27 | 185.16 | 598 | 54.42 | 22.38 | 34.49 | 15.53 | 3.56 | .28 | 6.56 | 2.97 AMP |
| | | | | 346.35 | 148.28 | 229.15 | 41.93 | 348.15 | 114.73 | 98.23 | 189.61 PHASE |

TABLE VII.- Continued

(e) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|------|---------|-----|-----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|--------------|
| RUN NO | | 12 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 302 | 7.48 | 8.69 | 596 | 5.16 334.44 | .56 265.84 | 1.66 328.83 | 1.46 268.64 | 2.17 333.69 | .29 35.78 | .26 313.26 | .21 114.28 | AMP PHASE |
| 303 | 5.93 | 8.84 | 595 | 5.37 339.82 | .89 264.74 | 1.63 328.43 | 1.58 268.74 | 2.84 323.58 | .32 258.99 | .25 265.28 | .83 158.21 | AMP PHASE |
| 304 | 4.88 | 8.27 | 596 | 6.13 358.29 | 1.83 263.27 | 1.68 328.87 | 1.88 269.28 | 2.81 326.24 | .26 6.69 | .52 262.15 | .18 65.41 | AMP PHASE |
| 305 | 2.35 | 9.42 | 595 | 7.87 358.43 | 1.11 251.93 | 1.68 387.87 | 2.21 276.92 | 2.83 339.86 | .23 66.18 | .68 264.29 | .31 56.15 | AMP PHASE |
| 306 | .24 | 11.77 | 593 | 8.56 6.65 | 1.17 232.86 | 1.88 297.18 | 2.78 286.89 | 2.47 2.18 | .57 85.16 | .48 263.79 | .19 6.68 | AMP PHASE |
| 318 | 9.95 | 11.22 | 598 | 7.28 335.93 | 1.33 158.37 | .88 8.86 | 1.63 328.84 | 1.78 28.81 | .65 94.64 | .44 257.34 | .93 184.88 | AMP PHASE |
| 311 | 8.21 | 11.85 | 589 | 7.37 348.48 | 1.18 158.14 | .98 5.96 | 1.64 387.41 | 1.84 13.88 | .71 185.86 | .45 266.23 | 1.87 98.84 | AMP PHASE |
| 312 | 6.33 | 11.65 | 589 | 7.82 349.27 | 1.18 161.11 | .71 18.93 | 1.78 388.24 | 1.79 28.31 | .48 119.53 | .43 258.86 | .79 95.87 | AMP PHASE |
| 313 | 4.24 | 12.58 | 589 | 8.76 353.68 | .76 158.38 | 1.18 355.94 | 1.94 297.55 | 1.86 9.52 | .49 45.82 | .43 288.94 | .93 84.33 | AMP PHASE |
| 314 | 2.81 | 14.18 | 598 | 18.39 357.37 | .44 88.38 | 1.94 347.49 | 2.42 387.71 | 2.88 11.49 | 1.36 48.78 | .25 384.23 | 1.23 63.87 | AMP PHASE |
| 315 | .85 | 15.73 | 589 | 11.32 358.44 | .65 46.48 | 2.39 346.25 | 2.68 313.76 | 3.23 17.73 | 1.77 48.71 | .16 166.49 | 1.15 61.46 | AMP PHASE |
| 316 | -.86 | 18.67 | 592 | 13.82 358.46 | 1.42 29.61 | 3.18 347.77 | 2.33 311.32 | 3.37 16.12 | 2.24 58.45 | .96 147.42 | 1.86 71.72 | AMP PHASE |
| 318 | 9.58 | 9.32 | 589 | 5.88 329.36 | .53 146.88 | 1.39 334.75 | 1.37 291.77 | 1.85 353.91 | .44 85.22 | .28 282.95 | .39 128.99 | AMP PHASE |
| 319 | 7.87 | 9.15 | 598 | 6.18 341.25 | .38 199.14 | 1.42 351.19 | 1.48 386.28 | 2.86 19.57 | .43 188.79 | .29 341.45 | .28 156.52 | AMP PHASE |
| 328 | 6.82 | 9.16 | 589 | 6.59 345.79 | .47 215.57 | 1.26 338.13 | 1.78 281.97 | 1.95 59 | .32 45.52 | .35 267.81 | .86 288.53 | AMP PHASE |
| 321 | 4.16 | 18.12 | 598 | 7.29 356.59 | .57 222.84 | 1.24 328.95 | 1.93 292.48 | 1.84 11.88 | .28 58.23 | .61 298.19 | .13 78.86 | AMP PHASE |
| 322 | 2.31 | 11.86 | 589 | 8.19 358.79 | .68 288.88 | 1.32 384.72 | 2.16 273.84 | 1.97 358.17 | .38 58.58 | .78 263.71 | .31 26.17 | AMP PHASE |
| 323 | 1.36 | 12.87 | 598 | 8.86 2.95 | .75 193.75 | 1.33 381.98 | 2.38 279.85 | 2.16 2.38 | .48 67.18 | .66 269.52 | .32 35.81 | AMP PHASE |

TABLE VII.- Continued

(e) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 12 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 34.50 | 17.76 | 596 | 9.45 | 6.72 | 5.12 | 1.54 | 3.54 | 3.38 | .35 | .32 AMP |
| | | | | 130.09 | 317.38 | 359.12 | 335.17 | 58.25 | 292.19 | 260.06 | 200.75 PHASE |
| 303 | 35.63 | 18.02 | 595 | 10.06 | 6.91 | 6.26 | 1.70 | 3.24 | .25 | .23 | .31 AMP |
| | | | | 133.40 | 312.48 | 354.24 | 330.09 | 42.61 | 262.25 | 236.72 | 166.39 PHASE |
| 304 | 36.75 | 20.35 | 596 | 11.44 | 7.80 | 7.51 | 1.90 | 3.70 | .20 | .30 | .47 AMP |
| | | | | 134.83 | 314.19 | 342 | 331.81 | 50.09 | 240.26 | 223.73 | 167.69 PHASE |
| 305 | 37.61 | 22.41 | 595 | 12.73 | 8.66 | 8.35 | 2.20 | 3.94 | .27 | .40 | .54 AMP |
| | | | | 135.20 | 315.69 | 9.79 | 335.57 | 50.01 | 213.95 | 250.12 | 176.71 PHASE |
| 306 | 38.58 | 25.33 | 593 | 14.56 | 9.72 | 9.82 | 2.32 | 3.94 | .37 | .47 | .53 AMP |
| | | | | 134.99 | 316.29 | 12.61 | 333.05 | 64.64 | 199.69 | 264.61 | 168.50 PHASE |
| 310 | 32.05 | 21.78 | 590 | 11.63 | 7.81 | 4.92 | 2.11 | 2.73 | .41 | .31 | 1.14 AMP |
| | | | | 130.07 | 319.06 | 21.46 | 320.07 | 118.30 | 342.53 | 305.99 | 259.94 PHASE |
| 311 | 33.00 | 23.83 | 589 | 13.00 | 8.68 | 6.29 | 2.20 | 3.03 | .33 | .39 | 1.26 AMP |
| | | | | 137.30 | 315.30 | 17.21 | 324.43 | 106.23 | 321.36 | 285.22 | 247.97 PHASE |
| 312 | 33.07 | 25.55 | 589 | 13.98 | 9.49 | 7.60 | 2.12 | 2.69 | .42 | .40 | 1.03 AMP |
| | | | | 137.89 | 314.29 | 20.31 | 331.71 | 104.73 | 336.54 | 295.93 | 254.40 PHASE |
| 313 | 34.76 | 26.10 | 589 | 14.94 | 10.33 | 7.93 | 2.16 | 2.54 | .37 | .37 | .93 AMP |
| | | | | 135.03 | 311.67 | 11.62 | 310.02 | 95.20 | 321.88 | 283.34 | 241.10 PHASE |
| 314 | 35.43 | 28.03 | 590 | 15.97 | 11.93 | 8.75 | 2.60 | 2.70 | .03 | .43 | 1.00 AMP |
| | | | | 133.66 | 309.93 | 2.58 | 286.79 | 90.10 | 331.05 | 250.20 | 226.00 PHASE |
| 315 | 35.75 | 28.94 | 589 | 16.34 | 12.64 | 8.79 | 2.70 | 3.03 | .13 | .50 | .95 AMP |
| | | | | 132.37 | 308.79 | 358.93 | 276.00 | 101.40 | 156.02 | 249.17 | 211.92 PHASE |
| 316 | 36.06 | 29.33 | 592 | 16.68 | 13.34 | 8.78 | 3.13 | 2.65 | .26 | .68 | .87 AMP |
| | | | | 129.63 | 306.59 | 347.76 | 261.16 | 98.00 | 161.59 | 240.34 | 193.51 PHASE |
| 318 | 32.99 | 18.73 | 589 | 9.51 | 6.88 | 4.09 | 1.43 | 3.30 | .60 | .50 | .53 AMP |
| | | | | 135.20 | 319.37 | 3.85 | 329.01 | 79.62 | 311.02 | 262.14 | 236.02 PHASE |
| 319 | 34.13 | 20.34 | 590 | 10.66 | 7.59 | 5.58 | 1.70 | 3.15 | .52 | .45 | .52 AMP |
| | | | | 139.83 | 326.06 | 18.03 | 343.04 | 102.96 | 331.91 | 292.96 | 248.50 PHASE |
| 320 | 35.19 | 21.83 | 589 | 11.90 | 8.37 | 7.12 | 1.07 | 3.11 | .55 | .32 | .49 AMP |
| | | | | 135.00 | 316.40 | 10.14 | 320.12 | 70.06 | 301.14 | 274.51 | 206.17 PHASE |
| 321 | 36.24 | 23.47 | 590 | 13.16 | 9.25 | 8.29 | 1.90 | 3.14 | .47 | .32 | .61 AMP |
| | | | | 137.30 | 320.07 | 18.29 | 334.03 | 80.35 | 312.46 | 264.24 | 210.26 PHASE |
| 322 | 37.11 | 25.47 | 589 | 14.33 | 9.79 | 9.04 | 2.07 | 3.43 | .39 | .42 | .72 AMP |
| | | | | 131.55 | 309.33 | 3.07 | 309.09 | 63.56 | 296.72 | 226.44 | 167.21 PHASE |
| 323 | 37.45 | 26.89 | 590 | 15.00 | 10.29 | 9.59 | 2.15 | 3.67 | .30 | .42 | .71 AMP |
| | | | | 132.58 | 310.97 | 8.50 | 313.40 | 71.52 | 304.64 | 239.49 | 173.74 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 12 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 21.89 | 43.14 | 596 | 9.22 | 5.21 | 5.91 | 9.46 | 2.57 | 10.03 | 5.50 | .99 AMP |
| | | | | 304.14 | 139.79 | 226.73 | 44.11 | 334.19 | 31.59 | 19.91 | 131.16 PHASE |
| 303 | 22.34 | 38.58 | 595 | 12.94 | 7.41 | 10.59 | 12.44 | 2.04 | 7.42 | 7.44 | 1.32 AMP |
| | | | | 316.14 | 143.34 | 214.24 | 30.60 | 275.00 | 25.00 | 26.25 | 76.65 PHASE |
| 304 | 23.25 | 61.02 | 596 | 21.24 | 10.32 | 17.22 | 17.40 | 2.50 | 6.50 | 5.03 | 2.52 AMP |
| | | | | 337.74 | 149.74 | 227.19 | 36.07 | 281.95 | 302.70 | 75.05 | 95.50 PHASE |
| 305 | 23.73 | 85.30 | 595 | 29.67 | 12.03 | 24.22 | 21.41 | 2.60 | 9.49 | 3.76 | 3.31 AMP |
| | | | | 346.32 | 154.22 | 236.66 | 39.90 | 214.00 | 279.54 | 76.00 | 111.15 PHASE |
| 306 | 22.90 | 110.07 | 593 | 42.54 | 16.99 | 33.65 | 25.79 | 4.92 | 9.37 | 5.64 | 4.65 AMP |
| | | | | 355.34 | 150.54 | 245.75 | 42.00 | 217.30 | 201.00 | 62.94 | 120.55 PHASE |
| 310 | 25.34 | 38.09 | 590 | 17.62 | 6.00 | 5.32 | 8.06 | 5.00 | 6.41 | 6.31 | 3.21 AMP |
| | | | | 270.00 | 110.43 | 260.19 | 61.53 | 79.99 | 196.02 | 90.30 | 202.33 PHASE |
| 311 | 23.99 | 45.55 | 589 | 22.53 | 9.43 | 9.47 | 8.42 | 2.70 | 5.32 | 8.01 | 4.56 AMP |
| | | | | 200.47 | 119.04 | 265.35 | 50.42 | 47.51 | 31.95 | 78.02 | 102.34 PHASE |
| 312 | 22.53 | 59.52 | 589 | 27.02 | 13.00 | 10.77 | 12.37 | 4.79 | 8.90 | 10.93 | 4.17 AMP |
| | | | | 306.19 | 124.04 | 265.54 | 53.96 | 10.50 | 107.25 | 92.90 | 193.00 PHASE |
| 313 | 21.31 | 65.07 | 589 | 35.07 | 16.69 | 14.50 | 14.23 | 6.14 | 7.05 | 14.06 | 4.29 AMP |
| | | | | 310.50 | 120.07 | 255.43 | 45.02 | 350.00 | 162.71 | 109.69 | 166.40 PHASE |
| 314 | 20.02 | 85.48 | 590 | 44.20 | 21.30 | 19.29 | 16.42 | 5.34 | 17.34 | 18.09 | 5.65 AMP |
| | | | | 329.61 | 132.00 | 252.07 | 39.46 | 331.45 | 100.04 | 120.65 | 130.27 PHASE |
| 315 | 19.41 | 97.97 | 589 | 40.23 | 23.10 | 22.07 | 15.00 | 7.01 | 21.03 | 19.30 | 6.45 AMP |
| | | | | 334.11 | 135.00 | 251.45 | 33.52 | 315.76 | 196.01 | 125.53 | 122.50 PHASE |
| 316 | 10.90 | 119.61 | 592 | 54.25 | 23.05 | 26.40 | 14.19 | 11.17 | 20.29 | 18.52 | 7.79 AMP |
| | | | | 330.50 | 135.02 | 247.91 | 11.35 | 296.30 | 201.05 | 134.25 | 100.26 PHASE |
| 318 | 22.51 | 33.69 | 589 | 11.02 | 4.07 | 3.65 | 7.73 | 2.09 | 8.63 | 6.40 | 1.42 AMP |
| | | | | 265.83 | 110.00 | 250.00 | 51.32 | 54.01 | 21.01 | 37.97 | 161.07 PHASE |
| 319 | 22.62 | 45.77 | 590 | 14.74 | 7.07 | 5.96 | 8.77 | 2.07 | 15.95 | 8.06 | 2.09 AMP |
| | | | | 295.22 | 124.12 | 261.00 | 62.61 | 35.97 | 60.56 | 60.38 | 192.50 PHASE |
| 320 | 22.50 | 49.09 | 589 | 21.01 | 10.95 | 10.16 | 12.99 | 4.00 | 9.44 | 11.56 | 2.16 AMP |
| | | | | 314.92 | 126.93 | 237.00 | 40.00 | 354.32 | 60.25 | 66.07 | 135.40 PHASE |
| 321 | 22.40 | 60.03 | 590 | 33.95 | 14.00 | 16.15 | 17.26 | 5.00 | 2.51 | 10.91 | 3.17 AMP |
| | | | | 330.95 | 140.66 | 247.04 | 53.21 | 15.59 | 102.04 | 100.90 | 156.19 PHASE |
| 322 | 21.63 | 81.46 | 589 | 33.60 | 15.05 | 22.60 | 20.06 | 4.47 | 1.22 | 10.43 | 4.10 AMP |
| | | | | 334.02 | 135.97 | 237.29 | 35.63 | 346.03 | 276.95 | 84.67 | 116.76 PHASE |
| 323 | 20.59 | 90.22 | 590 | 43.07 | 17.99 | 25.77 | 22.15 | 4.01 | 1.09 | 10.37 | 4.65 AMP |
| | | | | 333.71 | 142.39 | 245.59 | 41.70 | 346.46 | 270.99 | 97.97 | 126.61 PHASE |

TABLE VII.- Continued

(e) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|
| RUN NO 12 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 5.38 | 8.37 | 596 | 6.59 332.88 | .29 98.78 | .77 292.28 | 1.41 237.15 | 1.91 291.85 | .29 357.96 | .26 288.94 | .14 48.18 |
| 303 | 3.79 | 8.35 | 595 | 6.86 334.72 | .18 178.36 | .75 281.46 | 1.37 228.87 | 1.81 281.36 | .29 328.87 | .25 236.13 | .81 36.13 |
| 304 | 2.88 | 9.26 | 596 | 7.66 343.18 | .26 184.55 | .73 278.82 | 1.64 237.43 | 1.86 284.33 | .28 348.48 | .43 225.19 | .89 1.85 |
| 305 | .32 | 18.69 | 595 | 8.58 349.49 | .54 175.31 | 1.88 252.99 | 2.83 244.33 | 1.87 298.51 | .22 36.31 | .58 219.81 | .25 354.43 |
| 306 | -1.75 | 13.83 | 593 | 18.88 356.32 | 1.81 166.14 | 1.33 242.14 | 2.48 256.18 | 2.19 319.96 | .55 51.43 | .39 221.48 | .19 323.61 |
| 310 | 8.48 | 11.82 | 598 | 7.96 338.86 | 1.77 127.32 | .28 355.18 | 1.32 285.73 | 1.53 346.88 | .55 57.36 | .28 223.84 | .61 54.31 |
| 311 | 6.79 | 11.89 | 589 | 8.29 333.67 | 1.64 127.58 | .28 .92 | 1.33 274.88 | 1.66 331.47 | .68 67.27 | .28 241.13 | .72 39.36 |
| 312 | 4.95 | 11.89 | 589 | 8.82 341.16 | 1.62 126.72 | .11 84.27 | 1.48 267.17 | 1.68 337.79 | .36 85.39 | .27 229.73 | .54 42.76 |
| 313 | 2.95 | 12.63 | 589 | 9.75 344.58 | 1.41 113.89 | .24 345.25 | 1.61 267.82 | 1.67 328.82 | .39 8.98 | .34 268.27 | .67 31.53 |
| 314 | .81 | 14.16 | 598 | 11.36 347.29 | 1.29 84.84 | .82 326.58 | 2.83 281.97 | 2.45 332.75 | 1.18 357.98 | .26 296.79 | .91 11.85 |
| 315 | -.29 | 15.85 | 589 | 12.26 347.98 | 1.36 65.77 | 1.15 326.88 | 2.78 289.65 | 2.78 339.42 | 1.41 6.39 | .13 38.21 | .84 8.94 |
| 316 | -1.84 | 16.18 | 592 | 13.77 347.76 | 1.92 43.46 | 1.71 335.52 | 1.98 291.21 | 2.85 348.88 | 1.78 15.59 | .69 84.98 | .71 18.26 |
| 318 | 7.99 | 9.88 | 589 | 6.87 326.49 | 1.85 187.34 | .67 387.81 | 1.28 258.26 | 1.64 312.37 | .48 47.76 | .19 264.54 | .27 65.28 |
| 319 | 6.37 | 9.32 | 598 | 7.29 336.74 | .81 124.88 | .59 328.94 | 1.27 273.88 | 1.88 338.41 | .38 66.33 | .26 313.76 | .18 91.76 |
| 320 | 4.59 | 9.86 | 509 | 7.86 339.41 | .74 125.82 | .49 277.66 | 1.48 258.37 | 1.75 317.61 | .28 28.75 | .26 248.91 | .83 381.21 |
| 321 | 2.78 | 18.81 | 598 | 8.59 348.38 | .83 135.86 | .56 257.86 | 1.68 268.69 | 1.78 327.19 | .25 39.97 | .48 253.87 | .14 13.58 |
| 322 | 1.86 | 11.94 | 589 | 9.42 349.19 | .99 121.45 | .74 231.88 | 1.88 243.55 | 1.79 386.86 | .38 28.78 | .58 222.48 | .27 336.63 |
| 323 | .17 | 12.88 | 598 | 18.85 352.84 | 1.28 124.88 | .88 227.64 | 2.81 258.28 | 1.92 319.47 | .35 41.56 | .49 227.61 | .28 344.73 |

TABLE VII.- Continued

(e) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 12 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 22.06 | 19.08 | 596 | 11.48 | 8.34 | 6.48 | 1.15 | 1.67 | .59 | .81 | .72 AMP |
| | | | | 127.31 | 315.83 | 355.88 | 298.88 | 233.35 | 144.35 | 58.95 | 231.87 PHASE |
| 303 | 23.16 | 20.19 | 595 | 12.41 | 8.68 | 7.87 | 1.12 | 1.68 | .46 | .78 | 1.49 AMP |
| | | | | 125.86 | 389.82 | 351.87 | 298.87 | 223.83 | 126.59 | 32.28 | 163.84 PHASE |
| 304 | 24.17 | 24.74 | 596 | 14.21 | 9.78 | 9.68 | 1.83 | 1.66 | .58 | .88 | .94 AMP |
| | | | | 127.96 | 389.88 | 2.74 | 296.38 | 238.11 | 133.29 | 43.35 | 157.48 PHASE |
| 305 | 24.85 | 28.28 | 595 | 16.84 | 10.84 | 10.92 | .85 | 1.66 | .58 | .78 | 1.19 AMP |
| | | | | 129.84 | 318.73 | 18.92 | 299.46 | 239.21 | 143.22 | 42.37 | 166.13 PHASE |
| 306 | 25.56 | 33.41 | 593 | 18.52 | 12.45 | 13.18 | .71 | 1.71 | .52 | .62 | 1.48 AMP |
| | | | | 131.45 | 311.17 | 16.12 | 386.61 | 243.42 | 147.82 | 45.99 | 158.77 PHASE |
| 310 | 19.59 | 25.96 | 598 | 14.37 | 9.25 | 16.52 | 1.25 | 2.47 | .93 | 1.78 | 4.82 AMP |
| | | | | 129.88 | 318.48 | 16.72 | 321.67 | 269.11 | 175.38 | 36.18 | 266.52 PHASE |
| 311 | 20.58 | 28.53 | 589 | 16.87 | 10.52 | 7.98 | 1.36 | 2.44 | .84 | 1.69 | 4.37 AMP |
| | | | | 129.53 | 314.18 | 11.82 | 318.88 | 256.98 | 171.87 | 29.43 | 251.81 PHASE |
| 312 | 21.37 | 30.27 | 589 | 17.38 | 11.61 | 9.69 | 1.35 | 2.48 | .62 | 1.42 | 3.34 AMP |
| | | | | 132.83 | 312.62 | 15.45 | 321.35 | 258.28 | 167.98 | 33.86 | 253.33 PHASE |
| 313 | 22.12 | 31.88 | 589 | 18.72 | 12.84 | 10.24 | 1.37 | 2.37 | .61 | 1.53 | 2.76 AMP |
| | | | | 138.96 | 318.24 | 9.89 | 312.96 | 251.21 | 144.64 | 26.48 | 241.76 PHASE |
| 314 | 22.63 | 34.54 | 598 | 19.89 | 15.11 | 11.37 | 1.75 | 2.88 | .52 | 1.42 | 2.67 AMP |
| | | | | 138.38 | 387.57 | 1.31 | 289.61 | 246.17 | 172.73 | 358.78 | 224.68 PHASE |
| 315 | 22.83 | 35.28 | 589 | 20.27 | 16.15 | 11.64 | 1.98 | 3.84 | .54 | 1.42 | 2.29 AMP |
| | | | | 129.96 | 386.34 | 358.19 | 284.42 | 246.17 | 179.42 | 346.87 | 287.92 PHASE |
| 316 | 22.92 | 36.93 | 592 | 20.75 | 17.22 | 11.59 | 1.78 | 2.91 | .49 | 1.73 | 2.81 AMP |
| | | | | 128.13 | 383.66 | 348.81 | 277.89 | 241.33 | 194.88 | 329.64 | 179.71 PHASE |
| 318 | 21.16 | 19.86 | 589 | 11.73 | 8.29 | 5.31 | 1.38 | 2.88 | .97 | 1.23 | 1.55 AMP |
| | | | | 124.85 | 319.58 | 359.98 | 389.46 | 246.84 | 139.77 | 53.84 | 257.14 PHASE |
| 319 | 22.14 | 21.15 | 598 | 13.88 | 9.32 | 7.88 | 1.41 | 2.85 | .76 | .96 | 1.27 AMP |
| | | | | 138.24 | 324.83 | 14.51 | 327.68 | 264.76 | 169.23 | 83.14 | 283.71 PHASE |
| 320 | 23.83 | 24.39 | 589 | 14.69 | 10.52 | 9.83 | 1.48 | 2.15 | .75 | .89 | .67 AMP |
| | | | | 128.17 | 313.98 | 7.69 | 313.43 | 242.34 | 139.72 | 42.88 | 289.77 PHASE |
| 321 | 23.98 | 28.32 | 598 | 16.43 | 11.95 | 10.68 | 1.43 | 2.12 | .78 | 1.81 | 1.31 AMP |
| | | | | 131.44 | 317.28 | 18.88 | 323.81 | 252.69 | 157.64 | 67.38 | 289.13 PHASE |
| 322 | 24.78 | 31.88 | 589 | 18.18 | 12.73 | 11.67 | 1.46 | 2.87 | .64 | .84 | 1.73 AMP |
| | | | | 127.18 | 386.24 | 4.63 | 382.49 | 226.95 | 134.69 | 57.47 | 165.41 PHASE |
| 323 | 25.89 | 33.88 | 598 | 19.82 | 13.51 | 12.53 | 1.48 | 2.11 | .58 | .65 | 1.82 AMP |
| | | | | 128.57 | 388.32 | 18.45 | 389.84 | 236.89 | 137.27 | 63.13 | 172.99 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO | | 12 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 20.67 | 51.64 | 596 | 9.32 | 4.48 | 4.41 | 11.49 | 2.23 | 21.39 | 7.15 | 1.56 AMP |
| | | | | 383.84 | 149.23 | 254.18 | 42.97 | 325.88 | 32.24 | 23.99 | 157.87 PHASE |
| 303 | 20.94 | 42.18 | 595 | 12.72 | 6.47 | 8.14 | 15.14 | 3.19 | 6.62 | 9.78 | 1.55 AMP |
| | | | | 311.57 | 158.28 | 233.21 | 31.84 | 259.85 | 24.58 | 31.31 | 96.85 PHASE |
| 304 | 21.14 | 63.23 | 596 | 19.81 | 9.88 | 13.89 | 28.85 | 2.81 | 8.39 | 6.51 | 3.64 AMP |
| | | | | 338.49 | 154.28 | 244.87 | 38.73 | 265.91 | 38.12 | 82.54 | 116.75 PHASE |
| 305 | 21.31 | 84.38 | 595 | 27.87 | 11.26 | 20.15 | 25.54 | 3.51 | 12.31 | 4.54 | 4.94 AMP |
| | | | | 338.33 | 157.74 | 252.55 | 42.38 | 284.89 | 279.45 | 85.81 | 132.81 PHASE |
| 306 | 20.48 | 106.98 | 593 | 37.83 | 14.68 | 28.91 | 31.11 | 5.93 | 12.34 | 6.41 | 6.29 AMP |
| | | | | 346.41 | 168.97 | 268.87 | 44.38 | 288.83 | 279.58 | 64.98 | 139.84 PHASE |
| 310 | 24.37 | 44.94 | 598 | 16.78 | 5.27 | 4.75 | 9.24 | 5.89 | 7.98 | 8.31 | 4.46 AMP |
| | | | | 274.58 | 119.35 | 291.12 | 68.29 | 78.78 | 284.29 | 89.94 | 223.87 PHASE |
| 311 | 22.82 | 58.98 | 589 | 21.61 | 7.92 | 7.73 | 18.39 | 2.71 | 5.82 | 18.59 | 6.18 AMP |
| | | | | 288.93 | 119.44 | 284.95 | 49.77 | 48.83 | 21.59 | 79.83 | 282.12 PHASE |
| 312 | 21.31 | 65.71 | 589 | 26.78 | 11.58 | 9.79 | 15.89 | 4.46 | 9.15 | 14.23 | 5.46 AMP |
| | | | | 384.17 | 124.49 | 285.89 | 54.32 | 16.92 | 187.99 | 93.83 | 217.21 PHASE |
| 313 | 19.73 | 73.18 | 589 | 34.81 | 14.89 | 13.23 | 17.38 | 5.86 | 8.44 | 18.67 | 5.23 AMP |
| | | | | 314.39 | 126.38 | 273.65 | 47.86 | 341.69 | 175.19 | 111.82 | 188.98 PHASE |
| 314 | 18.89 | 85.18 | 598 | 41.36 | 18.53 | 18.24 | 19.57 | 5.64 | 21.19 | 23.32 | 6.43 AMP |
| | | | | 323.89 | 129.85 | 269.89 | 39.76 | 388.98 | 196.33 | 125.33 | 158.64 PHASE |
| 315 | 17.41 | 98.91 | 589 | 44.26 | 28.58 | 21.85 | 18.91 | 8.27 | 27.22 | 23.72 | 7.48 AMP |
| | | | | 327.99 | 133.24 | 265.77 | 32.59 | 298.97 | 284.83 | 131.84 | 139.26 PHASE |
| 316 | 16.81 | 117.83 | 592 | 48.52 | 21.87 | 25.93 | 17.77 | 13.83 | 35.51 | 22.55 | 9.13 AMP |
| | | | | 332.13 | 134.22 | 268.62 | 9.82 | 288.84 | 287.98 | 148.73 | 112.35 PHASE |
| 318 | 21.15 | 35.89 | 589 | 18.41 | 3.53 | 3.23 | 8.88 | 2.45 | 9.89 | 8.21 | 1.72 AMP |
| | | | | 272.88 | 122.15 | 288.13 | 49.43 | 53.17 | 21.91 | 41.17 | 181.81 PHASE |
| 319 | 21.11 | 58.82 | 598 | 14.27 | 5.93 | 5.83 | 18.75 | 2.52 | 18.42 | 10.35 | 2.88 AMP |
| | | | | 297.18 | 129.38 | 288.62 | 61.78 | 28.65 | 66.98 | 78.58 | 218.21 PHASE |
| 320 | 20.96 | 55.62 | 589 | 28.71 | 9.16 | 8.87 | 15.78 | 4.61 | 18.35 | 15.89 | 2.43 AMP |
| | | | | 311.95 | 129.67 | 259.41 | 41.76 | 346.88 | 81.67 | 69.73 | 158.61 PHASE |
| 321 | 20.48 | 63.81 | 598 | 27.77 | 11.84 | 13.38 | 28.75 | 5.48 | 2.86 | 14.14 | 4.13 AMP |
| | | | | 325.49 | 142.39 | 267.46 | 55.88 | 18.95 | 182.86 | 112.19 | 172.48 PHASE |
| 322 | 19.47 | 79.87 | 589 | 35.46 | 13.67 | 19.58 | 24.88 | 4.12 | 2.88 | 13.39 | 5.61 AMP |
| | | | | 327.43 | 136.62 | 255.83 | 36.61 | 339.15 | 267.65 | 88.31 | 134.53 PHASE |
| 323 | 18.72 | 87.51 | 598 | 39.39 | 15.33 | 22.65 | 26.68 | 3.74 | 2.89 | 13.23 | 5.85 AMP |
| | | | | 331.77 | 143.84 | 263.16 | 42.54 | 338.98 | 278.55 | 181.99 | 144.99 PHASE |

TABLE VII.- Continued

(e) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 12 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 2.92 | 7.56 | 596 | 5.99 | .24 | .43 | 1.12 | 1.60 | .28 | .25 | .12 AMP |
| | | | | 341.53 | 138.49 | 313.34 | 264.54 | 317.52 | 42.44 | 316.34 | 109.21 PHASE |
| 303 | 1.71 | 7.73 | 595 | 6.23 | .23 | .35 | 1.08 | 1.55 | .26 | .24 | .04 AMP |
| | | | | 343.85 | 200.07 | 303.80 | 256.70 | 306.74 | 9.83 | 279.03 | 96.85 PHASE |
| 304 | .16 | 8.48 | 596 | 6.85 | .44 | .30 | 1.28 | 1.61 | .19 | .39 | .13 AMP |
| | | | | 351.50 | 212.35 | 278.16 | 263.36 | 309.15 | 13.12 | 268.25 | 45.99 PHASE |
| 305 | -1.35 | 9.58 | 595 | 7.52 | .68 | .53 | 1.52 | 1.70 | .26 | .46 | .25 AMP |
| | | | | 357.05 | 206.47 | 248.67 | 268.09 | 322.03 | 56.93 | 257.44 | 39.65 PHASE |
| 306 | -3.25 | 11.51 | 593 | 8.55 | .99 | .79 | 1.80 | 2.00 | .55 | .37 | .20 AMP |
| | | | | 3.04 | 193.83 | 235.62 | 277.51 | 342.61 | 77.82 | 244.69 | 359.57 PHASE |
| 310 | 4.60 | 8.92 | 590 | 6.56 | 1.36 | .22 | 1.10 | 1.24 | .54 | .15 | .29 AMP |
| | | | | 338.10 | 140.78 | 14.50 | 309.68 | 10.12 | 90.55 | 321.45 | 121.20 PHASE |
| 311 | 3.04 | 8.98 | 589 | 6.85 | 1.28 | .20 | 1.10 | 1.32 | .54 | .27 | .37 AMP |
| | | | | 341.56 | 144.37 | 15.25 | 296.77 | 355.62 | 98.54 | 302.04 | 104.80 PHASE |
| 312 | 1.39 | 9.39 | 589 | 7.25 | 1.21 | .11 | 1.13 | 1.26 | .33 | .25 | .30 AMP |
| | | | | 348.82 | 147.54 | 97.25 | 290.85 | 357.91 | 117.67 | 296.66 | 111.15 PHASE |
| 313 | -.33 | 9.89 | 589 | 7.98 | .93 | .22 | 1.18 | 1.35 | .31 | .37 | .44 AMP |
| | | | | 351.85 | 141.55 | 35.91 | 292.08 | 350.58 | 51.44 | 321.40 | 86.58 PHASE |
| 314 | -2.27 | 11.27 | 590 | 9.24 | .62 | .57 | 1.47 | 2.01 | .91 | .33 | .62 AMP |
| | | | | 354.05 | 106.17 | 12.22 | 309.50 | 357.33 | 34.01 | 346.19 | 58.20 PHASE |
| 315 | -3.29 | 11.95 | 589 | 9.97 | .63 | .77 | 1.60 | 2.32 | 1.18 | .19 | .57 AMP |
| | | | | 354.27 | 73.09 | 10.62 | 317.95 | 5.04 | 41.35 | 37.33 | 55.03 PHASE |
| 316 | -4.66 | 13.24 | 592 | 11.00 | 1.14 | 1.19 | 1.45 | 2.35 | 1.48 | .57 | .44 AMP |
| | | | | 353.08 | 39.88 | 14.46 | 322.30 | 7.95 | 47.68 | 110.39 | 72.29 PHASE |
| 318 | 3.99 | 7.65 | 589 | 5.92 | .83 | .42 | 1.05 | 1.36 | .39 | .16 | .18 AMP |
| | | | | 335.00 | 123.83 | 332.65 | 285.61 | 338.06 | 80.43 | 317.19 | 141.02 PHASE |
| 319 | 2.60 | 7.94 | 590 | 6.29 | .65 | .37 | 1.02 | 1.47 | .36 | .24 | .14 AMP |
| | | | | 345.63 | 146.93 | 347.98 | 301.24 | 3.34 | 102.36 | 351.09 | 165.05 PHASE |
| 320 | 1.08 | 8.57 | 589 | 6.77 | .60 | .23 | 1.12 | 1.45 | .23 | .24 | .03 AMP |
| | | | | 347.73 | 157.24 | 304.87 | 277.78 | 340.80 | 58.65 | 289.94 | 192.26 PHASE |
| 321 | -.55 | 9.23 | 590 | 7.34 | .67 | .22 | 1.22 | 1.43 | .18 | .38 | .10 AMP |
| | | | | 356.19 | 172.91 | 261.66 | 287.21 | 349.17 | 67.71 | 298.83 | 82.06 PHASE |
| 322 | -2.11 | 10.07 | 589 | 7.93 | .78 | .34 | 1.33 | 1.52 | .25 | .46 | .23 AMP |
| | | | | 356.48 | 161.72 | 223.56 | 267.29 | 329.11 | 59.27 | 257.71 | 19.85 PHASE |
| 323 | -2.98 | 10.99 | 590 | 8.42 | .90 | .49 | 1.43 | 1.65 | .32 | .43 | .23 AMP |
| | | | | 359.77 | 160.30 | 214.54 | 273.67 | 341.61 | 73.71 | 262.26 | 20.30 PHASE |

TABLE VII.- Continued

(e) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 12 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | - .32 | 27.02 | 596 | 18.01 | 7.33 | 5.36 | 2.76 | 5.15 | .19 | .98 | .98 AMP |
| | | | | 138.24 | 328.92 | 328.22 | 173.53 | 228.91 | 289.86 | 219.88 | 52.86 PHASE |
| 303 | 1.40 | 28.06 | 595 | 18.43 | 7.43 | 6.07 | 2.77 | 5.96 | .25 | .87 | .54 AMP |
| | | | | 137.43 | 323.38 | 321.05 | 168.78 | 215.69 | 223.89 | 197.13 | 338.25 PHASE |
| 304 | 3.17 | 38.48 | 596 | 19.73 | 8.45 | 7.17 | 2.96 | 6.31 | .29 | .83 | 1.22 AMP |
| | | | | 141.50 | 324.58 | 336.26 | 155.42 | 224.77 | 290.27 | 212.91 | 331.48 PHASE |
| 305 | 4.71 | 32.91 | 595 | 21.02 | 9.60 | 8.16 | 3.16 | 6.57 | .33 | .51 | 1.61 AMP |
| | | | | 144.14 | 325.13 | 347.05 | 150.97 | 232.71 | 309.90 | 200.58 | 343.55 PHASE |
| 306 | 6.35 | 38.10 | 593 | 22.73 | 11.48 | 9.78 | 3.15 | 6.93 | .72 | .37 | 1.92 AMP |
| | | | | 147.78 | 323.83 | 354.70 | 148.58 | 241.34 | 314.95 | 216.38 | 327.93 PHASE |
| 310 | -4.43 | 32.21 | 590 | 19.70 | 8.53 | 6.51 | 2.46 | 3.58 | 1.65 | 1.63 | 4.94 AMP |
| | | | | 137.45 | 331.12 | 346.73 | 166.75 | 294.36 | 12.49 | 242.20 | 80.47 PHASE |
| 311 | -2.85 | 35.38 | 589 | 20.66 | 9.61 | 7.28 | 2.31 | 4.17 | 1.49 | 1.67 | 5.45 AMP |
| | | | | 138.64 | 326.19 | 345.92 | 155.71 | 280.05 | 4.74 | 232.31 | 65.91 PHASE |
| 312 | -1.31 | 37.00 | 589 | 21.49 | 10.54 | 8.61 | 2.30 | 4.01 | 1.12 | 1.41 | 4.24 AMP |
| | | | | 143.28 | 325.42 | 350.65 | 157.43 | 282.63 | 356.72 | 235.70 | 66.93 PHASE |
| 313 | .32 | 38.02 | 589 | 22.46 | 11.58 | 8.91 | 2.28 | 4.36 | 1.40 | 1.67 | 3.53 AMP |
| | | | | 144.60 | 322.13 | 344.91 | 143.56 | 273.40 | 317.48 | 239.56 | 50.02 PHASE |
| 314 | 1.71 | 41.41 | 590 | 23.62 | 13.42 | 10.07 | 2.29 | 5.22 | 1.86 | 1.25 | 3.59 AMP |
| | | | | 146.45 | 319.49 | 340.69 | 136.31 | 271.00 | 298.72 | 224.90 | 38.54 PHASE |
| 315 | 2.33 | 41.06 | 589 | 24.05 | 14.38 | 10.48 | 2.00 | 5.94 | 2.12 | 1.05 | 3.29 AMP |
| | | | | 147.26 | 318.49 | 338.44 | 128.51 | 272.88 | 295.27 | 211.73 | 14.59 PHASE |
| 316 | 3.09 | 42.39 | 592 | 24.52 | 15.30 | 10.22 | 2.07 | 5.79 | 2.32 | 1.16 | 3.06 AMP |
| | | | | 146.71 | 315.48 | 330.04 | 100.92 | 267.18 | 284.04 | 183.75 | 348.45 PHASE |
| 318 | -3.11 | 26.85 | 589 | 17.92 | 7.64 | 5.25 | 2.47 | 5.22 | .39 | 1.49 | 2.06 AMP |
| | | | | 135.62 | 328.84 | 321.75 | 180.50 | 251.25 | 309.09 | 228.09 | 72.08 PHASE |
| 319 | -1.38 | 28.92 | 590 | 18.93 | 8.41 | 6.18 | 2.47 | 5.30 | .32 | 1.19 | 1.79 AMP |
| | | | | 142.23 | 335.76 | 340.42 | 189.84 | 275.18 | 334.10 | 259.26 | 98.16 PHASE |
| 320 | .23 | 30.71 | 589 | 19.94 | 9.40 | 7.33 | 2.48 | 5.36 | .41 | 1.12 | 1.02 AMP |
| | | | | 141.31 | 325.50 | 336.23 | 168.46 | 253.83 | 302.46 | 223.73 | 25.96 PHASE |
| 321 | 1.00 | 34.10 | 590 | 21.22 | 10.60 | 8.47 | 2.48 | 5.43 | .62 | 1.13 | 1.92 AMP |
| | | | | 145.59 | 329.29 | 349.48 | 172.29 | 266.72 | 303.83 | 251.92 | 24.35 PHASE |
| 322 | 3.50 | 36.79 | 589 | 22.29 | 11.66 | 9.21 | 2.21 | 6.10 | .72 | .91 | 2.61 AMP |
| | | | | 143.91 | 317.66 | 337.39 | 142.72 | 244.08 | 270.21 | 253.97 | 339.26 PHASE |
| 323 | 4.19 | 39.07 | 590 | 23.13 | 12.47 | 9.80 | 2.10 | 6.60 | .96 | .66 | 2.77 AMP |
| | | | | 146.15 | 319.62 | 344.04 | 144.19 | 252.00 | 273.12 | 266.85 | 347.11 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO | | 12 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | 12.97 | 24.06 | 596 | 6.45 | 3.16 | 4.82 | 3.47 | 4.64 | 8.06 | 2.38 | .88 AMP |
| | | | | 155.31 | 328.26 | 317.71 | 56.58 | 236.37 | 22.23 | 14.43 | 107.57 PHASE |
| 303 | 13.66 | 22.91 | 595 | 5.33 | 2.82 | 5.40 | 4.92 | 5.50 | 3.05 | 3.51 | .51 AMP |
| | | | | 155.04 | 320.60 | 306.45 | 40.60 | 220.25 | 7.65 | 27.34 | 60.48 PHASE |
| 304 | 14.86 | 26.88 | 596 | 3.48 | 2.98 | 7.16 | 7.52 | 5.67 | 4.06 | 2.47 | .96 AMP |
| | | | | 158.76 | 321.40 | 311.59 | 40.25 | 226.95 | 291.09 | 85.76 | 06.12 PHASE |
| 305 | 16.39 | 36.54 | 595 | 1.83 | 3.44 | 8.84 | 9.69 | 6.17 | 5.87 | 1.68 | 1.30 AMP |
| | | | | 167.76 | 320.11 | 314.82 | 51.62 | 221.23 | 273.95 | 08.51 | 103.89 PHASE |
| 306 | 17.72 | 41.24 | 593 | .66 | 4.21 | 11.07 | 12.26 | 7.29 | 6.22 | 2.17 | 1.23 AMP |
| | | | | 312.71 | 315.04 | 316.07 | 52.36 | 224.90 | 275.88 | 56.94 | 120.27 PHASE |
| 310 | 11.01 | 25.50 | 590 | 7.94 | 3.68 | 5.39 | 3.22 | 1.50 | 2.13 | 2.41 | 2.14 AMP |
| | | | | 168.44 | 339.46 | 339.34 | 82.74 | 325.11 | 213.49 | 09.93 | 107.44 PHASE |
| 311 | 11.59 | 28.23 | 589 | 6.85 | 3.86 | 6.61 | 3.80 | 2.61 | 3.23 | 3.32 | 2.53 AMP |
| | | | | 175.61 | 337.96 | 333.44 | 60.18 | 206.54 | 1.18 | 75.10 | 102.58 PHASE |
| 312 | 12.23 | 27.93 | 589 | 5.63 | 3.67 | 8.01 | 5.63 | 3.30 | 2.69 | 4.98 | 1.23 AMP |
| | | | | 187.96 | 345.10 | 336.49 | 67.25 | 297.21 | 02.99 | 07.49 | 105.91 PHASE |
| 313 | 12.70 | 34.63 | 589 | 4.11 | 4.18 | 8.86 | 6.99 | 4.29 | 2.63 | 6.90 | 1.36 AMP |
| | | | | 209.06 | 343.10 | 327.79 | 50.17 | 205.45 | 190.46 | 111.23 | 111.20 PHASE |
| 314 | 12.70 | 44.90 | 590 | 3.70 | 4.81 | 11.13 | 8.05 | 5.79 | 8.50 | 9.33 | 1.72 AMP |
| | | | | 247.44 | 330.54 | 320.85 | 48.93 | 270.10 | 205.19 | 125.38 | 106.65 PHASE |
| 315 | 12.67 | 46.14 | 589 | 3.80 | 4.88 | 12.09 | 7.84 | 7.56 | 11.02 | 9.83 | 2.07 AMP |
| | | | | 261.56 | 332.00 | 314.62 | 40.26 | 272.93 | 211.31 | 129.85 | 99.64 PHASE |
| 316 | 12.94 | 54.24 | 592 | 4.14 | 5.11 | 13.20 | 7.45 | 9.88 | 14.51 | 9.72 | 2.79 AMP |
| | | | | 278.35 | 323.53 | 303.07 | 18.18 | 271.50 | 212.58 | 137.76 | 76.15 PHASE |
| 318 | 7.29 | 22.58 | 589 | 7.50 | 3.40 | 4.56 | 2.48 | 3.01 | 3.92 | 2.40 | 1.38 AMP |
| | | | | 158.19 | 334.92 | 323.54 | 68.67 | 255.03 | 7.62 | 32.12 | 100.05 PHASE |
| 319 | 7.00 | 23.73 | 590 | 6.45 | 3.00 | 5.55 | 3.41 | 3.67 | 6.97 | 3.50 | 1.40 AMP |
| | | | | 168.15 | 348.04 | 337.62 | 76.91 | 203.77 | 55.89 | 61.26 | 153.36 PHASE |
| 320 | 9.38 | 26.04 | 589 | 4.74 | 3.50 | 6.52 | 5.39 | 4.28 | 3.44 | 5.55 | 1.65 AMP |
| | | | | 172.90 | 341.10 | 325.00 | 52.91 | 268.53 | 69.64 | 65.97 | 117.95 PHASE |
| 321 | 10.79 | 28.71 | 590 | 3.13 | 3.61 | 8.19 | 7.61 | 4.06 | 5.33 | 5.33 | .84 AMP |
| | | | | 190.55 | 342.50 | 331.00 | 63.27 | 203.07 | 341.15 | 110.24 | 119.89 PHASE |
| 322 | 11.81 | 30.45 | 569 | 1.97 | 3.96 | 9.90 | 9.35 | 4.69 | 2.30 | 4.92 | .92 AMP |
| | | | | 224.20 | 328.35 | 312.09 | 42.93 | 251.25 | 250.20 | 03.69 | 06.53 PHASE |
| 323 | 12.04 | 34.37 | 590 | 1.94 | 4.09 | 11.23 | 10.43 | 5.24 | 2.66 | 4.92 | .81 AMP |
| | | | | 250.08 | 325.56 | 317.16 | 47.73 | 256.22 | 265.50 | 97.14 | 103.63 PHASE |

TABLE VII.- Continued

(e) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 12 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | -2.22 | 5.13 | 596 | 3.52 | .76 | .21 | .75 | .79 | .16 | .89 | .88 AMP |
| | | | | 331.83 | 132.84 | 287.95 | 293.59 | 328.62 | 15.99 | 358.38 | 282.86 PHASE |
| 303 | -1.26 | 5.37 | 595 | 3.71 | .69 | .28 | .69 | .88 | .18 | .11 | .84 AMP |
| | | | | 335.46 | 147.68 | 181.97 | 287.28 | 389.43 | 354.23 | 332.79 | 282.33 PHASE |
| 304 | -2.62 | 6.25 | 596 | 4.21 | .89 | .58 | .81 | .87 | .22 | .89 | .86 AMP |
| | | | | 345.79 | 167.33 | 188.96 | 286.91 | 312.48 | 359.84 | 338.38 | 359.41 PHASE |
| 305 | -3.91 | 7.21 | 595 | 4.73 | 1.17 | .81 | .89 | 1.81 | .38 | .86 | .18 AMP |
| | | | | 353.88 | 175.51 | 189.22 | 282.38 | 323.19 | 28.32 | 195.59 | 323.79 PHASE |
| 306 | -5.48 | 8.69 | 593 | 5.53 | 1.54 | 1.87 | .98 | 1.24 | .53 | .18 | .18 AMP |
| | | | | 1.19 | 175.28 | 189.55 | 286.49 | 336.63 | 56.31 | 158.29 | 318.55 PHASE |
| 310 | 1.77 | 6.87 | 598 | 4.17 | 1.66 | .17 | .75 | .78 | .21 | .32 | .48 AMP |
| | | | | 325.28 | 126.41 | 181.83 | 331.99 | 8.13 | 122.98 | 69.47 | 242.37 PHASE |
| 311 | .55 | 6.71 | 589 | 4.38 | 1.63 | .26 | .74 | .76 | .19 | .23 | .43 AMP |
| | | | | 338.81 | 131.62 | 189.32 | 323.64 | 356.56 | 118.81 | 63.83 | 238.37 PHASE |
| 312 | -7.78 | 6.83 | 589 | 4.61 | 1.62 | .42 | .67 | .72 | .17 | .17 | .31 AMP |
| | | | | 348.82 | 139.79 | 184.55 | 323.71 | 358.25 | 123.73 | 52.68 | 224.92 PHASE |
| 313 | -2.84 | 7.13 | 589 | 4.98 | 1.68 | .43 | .71 | .85 | .13 | .35 | .11 AMP |
| | | | | 347.19 | 146.19 | 175.12 | 319.16 | 339.64 | 46.31 | 22.29 | 236.87 PHASE |
| 314 | -3.45 | 8.35 | 598 | 5.78 | 1.43 | .27 | .96 | 1.21 | .58 | .42 | .85 AMP |
| | | | | 351.54 | 158.37 | 152.73 | 334.14 | 358.89 | 34.14 | 38.12 | 219.68 PHASE |
| 315 | -4.17 | 8.66 | 589 | 6.88 | 1.33 | .25 | 1.81 | 1.34 | .61 | .41 | .85 AMP |
| | | | | 352.75 | 152.14 | 128.55 | 342.88 | 358.88 | 39.72 | 36.23 | 247.82 PHASE |
| 316 | -5.13 | 9.82 | 592 | 6.68 | 1.13 | .46 | .89 | 1.24 | .64 | .32 | .24 AMP |
| | | | | 352.64 | 149.49 | 78.11 | 352.22 | 1.21 | 44.45 | 34.25 | 257.18 PHASE |
| 318 | 1.55 | 5.88 | 589 | 3.65 | 1.21 | .85 | .75 | .78 | .15 | .28 | .17 AMP |
| | | | | 322.28 | 128.18 | 199.91 | 389.84 | 342.64 | 64.52 | 64.97 | 255.62 PHASE |
| 319 | .31 | 5.77 | 598 | 3.87 | 1.89 | .12 | .74 | .76 | .16 | .13 | .18 AMP |
| | | | | 334.97 | 139.84 | 282.88 | 331.53 | 5.34 | 98.39 | 83.47 | 387.37 PHASE |
| 320 | -9.98 | 6.18 | 589 | 4.22 | 1.89 | .31 | .71 | .79 | .12 | .15 | .85 AMP |
| | | | | 339.84 | 144.33 | 183.93 | 312.89 | 337.32 | 57.98 | 28.28 | 311.47 PHASE |
| 321 | -2.32 | 7.12 | 598 | 4.65 | 1.22 | .53 | .72 | .83 | .16 | .83 | .83 AMP |
| | | | | 358.75 | 168.98 | 187.21 | 318.56 | 342.57 | 55.82 | 37.64 | 43.89 PHASE |
| 322 | -3.62 | 7.65 | 589 | 5.89 | 1.37 | .78 | .73 | .88 | .22 | .89 | .89 AMP |
| | | | | 352.69 | 156.37 | 173.68 | 292.24 | 323.73 | 33.58 | 43.79 | 1.24 PHASE |
| 323 | -4.34 | 8.28 | 598 | 5.42 | 1.51 | .81 | .74 | .95 | .38 | .85 | .89 AMP |
| | | | | 356.66 | 168.85 | 177.55 | 297.28 | 334.21 | 44.57 | 67.36 | 14.48 PHASE |

PITCH LINK

| RUN NO | | 12 | | | | | | | | | |
|--------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 302 | -9.96 | 8.13 | 596 | 2.81 | 1.48 | 2.18 | 1.22 | 2.36 | .34 | .24 | .33 AMP |
| | | | | 169.14 | 88.86 | 147.58 | 85.82 | 152.23 | 281.18 | 75.47 | 274.28 PHASE |
| 303 | .16 | 8.13 | 595 | 3.23 | 1.75 | 2.13 | 1.32 | 2.36 | .33 | .23 | .81 AMP |
| | | | | 188.87 | 75.74 | 139.46 | 74.66 | 139.68 | 168.89 | 13.38 | 115.88 PHASE |
| 304 | 1.47 | 9.45 | 596 | 3.97 | 2.88 | 2.22 | 1.47 | 2.53 | .35 | .53 | .14 AMP |
| | | | | 194.49 | 79.18 | 148.23 | 78.58 | 145.91 | 154.81 | 22.78 | 93.62 PHASE |
| 305 | 2.71 | 18.52 | 595 | 5.24 | 2.16 | 2.28 | 1.84 | 2.57 | .23 | .42 | .11 AMP |
| | | | | 288.81 | 76.43 | 138.81 | 88.68 | 156.84 | 217.28 | 17.51 | 228.23 PHASE |
| 306 | 4.17 | 11.95 | 593 | 6.86 | 2.17 | 2.25 | 2.41 | 2.89 | .44 | .48 | .88 AMP |
| | | | | 283.75 | 74.15 | 128.58 | 188.88 | 174.97 | 251.29 | 3.26 | 151.47 PHASE |
| 310 | -4.92 | 9.93 | 598 | 5.52 | 1.81 | 1.84 | 1.58 | 1.67 | .67 | .73 | 1.24 AMP |
| | | | | 173.29 | 359.68 | 167.38 | 138.65 | 285.96 | 268.23 | 48.96 | 257.86 PHASE |
| 311 | -3.68 | 18.48 | 589 | 5.67 | 1.84 | 1.24 | 1.64 | 1.89 | .69 | .69 | 1.47 AMP |
| | | | | 178.61 | 12.97 | 164.11 | 125.66 | 192.21 | 278.68 | 45.49 | 243.35 PHASE |
| 312 | -2.21 | 18.82 | 589 | 6.28 | 1.86 | 1.16 | 1.75 | 1.92 | .35 | .56 | 1.83 AMP |
| | | | | 185.98 | 28.83 | 172.23 | 118.95 | 198.18 | 298.48 | 47.68 | 241.36 PHASE |
| 313 | -6.64 | 12.38 | 589 | 7.18 | .82 | 1.55 | 1.81 | 2.82 | .42 | .41 | .88 AMP |
| | | | | 189.39 | 26.61 | 168.59 | 112.58 | 186.48 | 287.12 | 48.88 | 229.13 PHASE |
| 314 | 1.84 | 14.52 | 598 | 8.64 | .53 | 2.46 | 2.18 | 2.72 | 1.18 | .24 | 1.86 AMP |
| | | | | 191.41 | 57.38 | 156.38 | 116.95 | 185.61 | 288.58 | 339.95 | 218.52 PHASE |
| 315 | 1.91 | 15.47 | 589 | 9.48 | .53 | 2.79 | 2.19 | 3.81 | .39 | .57 | 1.88 AMP |
| | | | | 192.89 | 188.19 | 153.67 | 119.71 | 189.37 | 217.56 | 316.72 | 282.99 PHASE |
| 316 | 3.25 | 18.89 | 592 | 11.84 | .85 | 3.31 | 2.84 | 3.85 | 1.78 | 1.36 | .96 AMP |
| | | | | 198.58 | 151.64 | 151.86 | 111.44 | 185.82 | 229.55 | 316.59 | 284.78 PHASE |
| 318 | -4.84 | 7.98 | 589 | 3.52 | .74 | 1.82 | 1.16 | 1.98 | .41 | .54 | .48 AMP |
| | | | | 167.92 | 53.97 | 149.12 | 112.41 | 173.27 | 248.73 | 68.68 | 268.14 PHASE |
| 319 | -2.87 | 8.18 | 598 | 3.95 | .97 | 1.93 | 1.25 | 2.14 | .43 | .39 | .36 AMP |
| | | | | 181.87 | 73.47 | 165.58 | 123.94 | 197.14 | 258.86 | 184.98 | 318.44 PHASE |
| 320 | -1.56 | 9.49 | 589 | 4.45 | 1.18 | 1.85 | 1.57 | 2.15 | .41 | .41 | .88 AMP |
| | | | | 187.28 | 65.87 | 149.95 | 99.34 | 178.48 | 196.72 | 41.86 | 63.58 PHASE |
| 321 | -2.21 | 18.88 | 598 | 5.36 | 1.33 | 1.98 | 1.69 | 2.17 | .38 | .68 | .18 AMP |
| | | | | 196.52 | 78.78 | 153.86 | 185.64 | 188.68 | 281.29 | 62.57 | 146.86 PHASE |
| 322 | 1.86 | 12.38 | 589 | 6.56 | 1.37 | 1.99 | 1.85 | 2.33 | .42 | .49 | .17 AMP |
| | | | | 197.39 | 57.28 | 129.39 | 85.49 | 163.95 | 185.18 | 49.84 | 148.78 PHASE |
| 323 | 1.76 | 12.62 | 598 | 7.25 | 1.49 | 1.98 | 1.98 | 2.48 | .44 | .39 | .25 AMP |
| | | | | 288.73 | 57.87 | 127.42 | 92.82 | 174.89 | 283.97 | 38.99 | 157.88 PHASE |

TABLE VII.- Continued

(f) $\mu = 0.40$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CW/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 324 | -1.1 | 5.1 | 0.0 | .03263 | .00160 | .00159 |
| 325 | -1.3 | 6.7 | 2.0 | .04253 | .00136 | .00183 |
| 326 | -1.7 | 8.0 | 4.0 | .05339 | .00108 | .00220 |
| 327 | -2.3 | 9.1 | 6.0 | .06296 | .00062 | .00276 |
| 328 | -2.3 | 10.0 | 7.9 | .07393 | .00072 | .00327 |
| 329 | -3.0 | 11.4 | 10.1 | .08395 | .00028 | .00447 |
| 330 | -1.0 | 5.3 | 2.0 | .02153 | .00000 | .00231 |
| 331 | -1.3 | 6.4 | 4.0 | .03351 | .00128 | .00260 |
| 332 | -1.7 | 8.0 | 6.0 | .04272 | .00245 | .00345 |
| 334 | -1.9 | 8.9 | 7.9 | .05429 | .00354 | .00399 |
| 335 | -2.4 | 10.1 | 9.9 | .06390 | .00484 | .00464 |
| 336 | -2.6 | 10.7 | 10.9 | .06934 | .00573 | .00526 |
| 371 | -.9 | 6.8 | 6.0 | .02185 | .00210 | .00301 |
| 372 | -1.4 | 7.7 | 8.0 | .03353 | .00416 | .00395 |
| 373 | -2.1 | 9.1 | 10.0 | .04323 | .00618 | .00492 |
| 374 | -2.6 | 10.0 | 11.9 | .05388 | .00854 | .00598 |
| 375 | -2.9 | 11.3 | 14.1 | .06449 | .01051 | .00734 |
| 376 | -.6 | 7.0 | 8.0 | .01246 | .00058 | .00259 |
| 377 | -1.4 | 7.8 | 10.0 | .02307 | .00360 | .00393 |
| 378 | -1.6 | 9.2 | 12.0 | .03455 | .00707 | .00528 |
| 379 | -2.2 | 9.9 | 14.0 | .04531 | .01021 | .00674 |
| 380 | -2.9 | 11.3 | 16.0 | .05520 | .01369 | .00833 |

TABLE VII.- Continued

(f) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 47.17 | 21.97 | 618 | 7.29 | 6.47 | 3.89 | 2.53 | 6.29 | 1.39 | 3.83 | 3.75 AMP |
| | | | | 144.78 | 313.26 | 18.18 | 335.56 | 95.84 | 341.88 | 232.99 | 77.28 PHASE |
| 325 | 48.38 | 23.85 | 618 | 8.31 | 7.21 | 4.87 | 2.61 | 6.92 | 1.21 | 3.31 | 4.85 AMP |
| | | | | 143.95 | 314.24 | 21.91 | 332.39 | 96.68 | 357.83 | 227.64 | 66.65 PHASE |
| 326 | 49.61 | 23.45 | 618 | 8.94 | 7.66 | 5.77 | 3.84 | 6.72 | 1.83 | 2.67 | 3.58 AMP |
| | | | | 142.17 | 318.61 | 24.69 | 336.47 | 182.69 | 357.89 | 237.92 | 77.44 PHASE |
| 327 | 58.59 | 23.33 | 618 | 9.31 | 8.11 | 6.26 | 3.17 | 6.65 | 1.11 | 2.22 | 3.89 AMP |
| | | | | 133.64 | 308.63 | 7.21 | 387.98 | 76.88 | 331.98 | 199.58 | 38.73 PHASE |
| 328 | 51.36 | 24.35 | 619 | 9.73 | 8.95 | 6.67 | 3.91 | 6.78 | .98 | 1.86 | 2.38 AMP |
| | | | | 131.48 | 319.44 | 7.06 | 384.21 | 95.68 | 3.97 | 281.58 | 58.29 PHASE |
| 329 | 52.39 | 24.11 | 618 | 10.17 | 9.75 | 7.88 | 4.64 | 6.43 | 1.88 | 1.96 | .85 AMP |
| | | | | 121.73 | 319.98 | 352.21 | 285.58 | 98.71 | 5.61 | 174.41 | 347.95 PHASE |
| 330 | 47.57 | 21.82 | 619 | 6.58 | 5.74 | 3.29 | 1.38 | 7.25 | 1.92 | 2.36 | 1.75 AMP |
| | | | | 148.44 | 314.93 | 348.47 | 346.81 | 69.53 | 336.27 | 241.43 | 55.55 PHASE |
| 331 | 48.93 | 21.51 | 619 | 7.85 | 6.38 | 4.46 | 1.87 | 6.86 | 1.78 | 2.38 | 1.91 AMP |
| | | | | 145.92 | 316.25 | 2.78 | 348.81 | 73.17 | 341.41 | 245.18 | 42.11 PHASE |
| 332 | 58.87 | 21.55 | 619 | 7.77 | 6.87 | 5.75 | 2.63 | 6.88 | 1.52 | 2.84 | 1.64 AMP |
| | | | | 142.82 | 315.51 | 4.89 | 332.54 | 71.41 | 338.43 | 236.58 | 48.84 PHASE |
| 334 | 51.19 | 21.35 | 619 | 8.19 | 7.27 | 6.41 | 3.81 | 7.34 | 1.63 | 1.98 | 1.35 AMP |
| | | | | 139.17 | 316.56 | 8.82 | 331.87 | 75.78 | 346.11 | 245.15 | 21.65 PHASE |
| 335 | 52.31 | 22.78 | 628 | 8.93 | 7.64 | 7.83 | 3.69 | 7.82 | 1.63 | 1.63 | 1.63 AMP |
| | | | | 138.32 | 311.32 | 357.81 | 318.41 | 61.22 | 332.94 | 234.27 | 344.79 PHASE |
| 336 | 52.83 | 23.74 | 619 | 9.21 | 7.63 | 7.17 | 3.89 | 7.75 | 1.63 | 1.48 | 1.45 AMP |
| | | | | 127.47 | 312.37 | 356.67 | 318.67 | 62.37 | 338.48 | 233.68 | 336.58 PHASE |
| 371 | 48.74 | 19.88 | 621 | 6.28 | 5.47 | 4.83 | 1.68 | 6.58 | 1.23 | 1.77 | 1.34 AMP |
| | | | | 146.52 | 305.34 | 337.44 | 348.48 | 38.88 | 327.35 | 288.25 | 358.88 PHASE |
| 372 | 58.82 | 18.84 | 628 | 6.55 | 5.79 | 5.83 | 2.48 | 6.83 | 1.24 | 1.46 | .96 AMP |
| | | | | 142.82 | 308.48 | 358.18 | 333.27 | 48.86 | 324.88 | 225.19 | 23.78 PHASE |
| 373 | 51.29 | 18.98 | 628 | 7.88 | 6.23 | 5.65 | 2.88 | 6.99 | 1.56 | 1.81 | 1.81 AMP |
| | | | | 138.89 | 316.15 | 2.16 | 348.11 | 54.73 | 342.83 | 239.57 | 16.99 PHASE |
| 374 | 52.49 | 19.85 | 619 | 7.82 | 6.45 | 5.99 | 3.52 | 7.38 | .95 | 1.38 | 1.27 AMP |
| | | | | 132.31 | 321.31 | 7.97 | 348.89 | 65.81 | 352.62 | 248.84 | 5.24 PHASE |
| 375 | 53.72 | 22.63 | 619 | 8.87 | 6.82 | 6.31 | 4.58 | 7.49 | .78 | 1.89 | 1.14 AMP |
| | | | | 121.83 | 317.78 | 355.33 | 319.89 | 56.28 | 387.81 | 228.89 | 326.88 PHASE |
| 376 | 48.79 | 16.22 | 628 | 5.35 | 5.05 | 3.92 | 1.23 | 4.38 | .58 | .81 | .99 AMP |
| | | | | 151.98 | 387.47 | 331.58 | 4.15 | 53.14 | 1.74 | 214.11 | 356.82 PHASE |
| 377 | 58.86 | 15.68 | 628 | 5.53 | 5.22 | 4.41 | 1.93 | 4.65 | .55 | .85 | .73 AMP |
| | | | | 145.61 | 311.36 | 347.85 | 353.21 | 54.83 | 353.14 | 234.23 | 38.33 PHASE |
| 378 | 51.51 | 15.59 | 628 | 6.24 | 5.55 | 4.63 | 2.57 | 5.38 | .78 | .98 | .88 AMP |
| | | | | 133.92 | 318.19 | 347.61 | 336.29 | 41.27 | 346.75 | 211.68 | 327.86 PHASE |
| 379 | 52.86 | 17.39 | 628 | 6.92 | 5.71 | 4.81 | 3.45 | 5.94 | .55 | .82 | .46 AMP |
| | | | | 121.59 | 385.84 | 341.88 | 318.31 | 38.88 | 328.88 | 185.38 | 273.32 PHASE |
| 388 | 54.25 | 28.81 | 619 | 8.17 | 5.52 | 4.84 | 4.39 | 6.58 | .24 | .76 | .76 AMP |
| | | | | 113.63 | 315.81 | 353.69 | 327.28 | 51.13 | 12.23 | 281.27 | 295.99 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 44.52 | 49.81 | 618 | 22.88 | 8.34 | 7.46 | 7.88 | 5.24 | 3.84 | 2.46 | 2.34 AMP |
| | | | | 278.24 | 116.36 | 258.49 | 66.83 | 31.41 | 127.78 | 55.13 | 138.68 PHASE |
| 325 | 43.59 | 49.14 | 618 | 28.75 | 13.84 | 18.82 | 7.25 | 6.35 | 6.83 | 2.35 | 2.82 AMP |
| | | | | 291.77 | 123.76 | 255.57 | 73.25 | 349.73 | 326.66 | 82.83 | 138.56 PHASE |
| 326 | 42.64 | 78.32 | 618 | 37.58 | 17.87 | 12.66 | 18.53 | 9.48 | 7.47 | 3.88 | 3.11 AMP |
| | | | | 311.14 | 128.83 | 251.18 | 58.89 | 355.42 | 67.81 | 111.21 | 153.71 PHASE |
| 327 | 42.22 | 85.32 | 618 | 45.69 | 22.54 | 17.35 | 12.25 | 18.21 | 7.81 | 5.69 | 3.62 AMP |
| | | | | 328.82 | 127.41 | 232.96 | 38.78 | 339.45 | 98.36 | 87.84 | 118.33 PHASE |
| 328 | 41.82 | 189.47 | 619 | 57.75 | 27.87 | 23.28 | 13.72 | 18.84 | 14.32 | 7.65 | 4.89 AMP |
| | | | | 338.28 | 135.17 | 242.23 | 49.71 | 351.74 | 163.95 | 126.71 | 138.81 PHASE |
| 329 | 42.16 | 133.88 | 618 | 78.43 | 29.84 | 31.34 | 11.51 | 18.18 | 22.11 | 8.64 | 4.17 AMP |
| | | | | 346.14 | 139.89 | 241.81 | 14.63 | 318.47 | 191.26 | 134.18 | 183.58 PHASE |
| 338 | 44.92 | 39.77 | 619 | 15.25 | 6.84 | 5.65 | 7.68 | 3.41 | 5.48 | 2.36 | .91 AMP |
| | | | | 268.48 | 123.61 | 249.25 | 62.14 | 14.93 | 328.69 | 16.48 | 121.77 PHASE |
| 331 | 45.18 | 51.86 | 619 | 19.88 | 9.52 | 8.82 | 18.36 | 11.93 | 13.66 | 2.66 | 1.83 AMP |
| | | | | 294.87 | 127.93 | 242.76 | 61.87 | 345.51 | 352.58 | 19.16 | 134.32 PHASE |
| 332 | 45.74 | 61.17 | 619 | 28.25 | 14.54 | 13.55 | 14.88 | 14.79 | 18.88 | 3.98 | 1.26 AMP |
| | | | | 314.56 | 138.77 | 227.27 | 46.92 | 337.92 | 38.41 | 29.34 | 126.68 PHASE |
| 334 | 45.93 | 76.85 | 619 | 39.15 | 19.37 | 21.68 | 18.83 | 12.58 | 4.31 | 3.88 | 2.83 AMP |
| | | | | 334.47 | 139.58 | 231.41 | 48.95 | 338.57 | 36.88 | 54.91 | 138.16 PHASE |
| 335 | 46.15 | 95.92 | 628 | 49.88 | 23.86 | 29.33 | 28.68 | 18.65 | 2.63 | 3.55 | 2.33 AMP |
| | | | | 339.78 | 137.79 | 226.91 | 37.17 | 321.17 | 29.82 | 51.89 | 188.89 PHASE |
| 336 | 45.96 | 182.38 | 619 | 54.65 | 25.21 | 33.55 | 21.49 | 18.49 | 3.85 | 3.76 | 2.63 AMP |
| | | | | 342.37 | 139.87 | 228.58 | 36.79 | 321.63 | 28.22 | 57.93 | 181.15 PHASE |
| 371 | 48.98 | 42.68 | 621 | 13.89 | 6.29 | 8.83 | 2.69 | 5.11 | 17.18 | 2.29 | .83 AMP |
| | | | | 287.16 | 145.32 | 211.58 | 48.46 | 285.31 | 297.82 | 316.57 | 78.98 PHASE |
| 372 | 58.99 | 48.98 | 628 | 21.39 | 18.95 | 14.23 | 11.93 | 6.17 | 8.81 | 3.88 | .99 AMP |
| | | | | 323.56 | 148.88 | 285.99 | 37.11 | 293.34 | 341.15 | 353.32 | 79.73 PHASE |
| 373 | 52.66 | 69.78 | 628 | 31.36 | 14.78 | 22.33 | 14.97 | 4.68 | 3.28 | 2.68 | 1.53 AMP |
| | | | | 342.59 | 152.28 | 221.49 | 48.35 | 294.46 | 298.39 | 24.68 | 91.68 PHASE |
| 374 | 54.88 | 183.59 | 619 | 43.92 | 18.82 | 31.26 | 18.31 | 4.39 | 4.88 | 2.69 | 1.98 AMP |
| | | | | 354.21 | 155.93 | 234.38 | 52.66 | 278.29 | 294.83 | 46.62 | 111.81 PHASE |
| 375 | 55.84 | 126.91 | 619 | 61.14 | 21.84 | 41.94 | 22.86 | 4.47 | 5.88 | 4.47 | 2.67 AMP |
| | | | | 356.95 | 153.88 | 229.47 | 37.87 | 243.79 | 326.39 | 31.66 | 91.39 PHASE |
| 376 | 46.85 | 35.32 | 628 | 8.73 | 3.33 | 6.95 | 7.27 | 2.38 | 12.97 | 1.39 | .58 AMP |
| | | | | 264.31 | 196.16 | 195.87 | 57.81 | 187.38 | 389.11 | 335.24 | 66.28 PHASE |
| 377 | 49.99 | 48.84 | 628 | 13.56 | 6.78 | 12.38 | 9.18 | 3.67 | 18.78 | 2.28 | .54 AMP |
| | | | | 317.68 | 171.72 | 288.65 | 47.99 | 273.89 | 17.44 | 359.85 | 57.89 PHASE |
| 378 | 52.47 | 66.87 | 628 | 26.83 | 18.83 | 28.96 | 13.83 | 4.38 | 2.66 | 1.28 | 1.83 AMP |
| | | | | 348.67 | 161.68 | 285.96 | 48.18 | 235.94 | 288.77 | 359.53 | 57.53 PHASE |
| 379 | 55.15 | 99.42 | 628 | 41.69 | 14.31 | 38.58 | 15.19 | 5.58 | 8.28 | 1.84 | 1.13 AMP |
| | | | | 358.92 | 168.82 | 289.59 | 25.85 | 198.37 | 248.13 | 357.96 | 44.79 PHASE |
| 388 | 57.68 | 123.51 | 619 | 59.94 | 17.25 | 39.89 | 17.48 | 11.78 | 9.89 | 3.24 | 1.73 AMP |
| | | | | 5.81 | 178.89 | 228.62 | 33.23 | 199.47 | 275.65 | 24.62 | 84.91 PHASE |

TABLE VII.- Continued

(f) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 14 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 18.21 | 12.52 | 618 | 7.64 | 1.61 | 1.88 | 2.88 | 1.97 | .63 | .65 | .78 |
| | | | | 334.33 | 138.55 | 18.72 | 388.31 | 18.51 | 83.66 | 278.36 | 71.42 |
| 325 | 8.38 | 13.28 | 618 | 7.81 | 1.37 | 1.23 | 2.11 | 1.86 | .78 | .98 | .79 |
| | | | | 341.12 | 145.18 | 18.39 | 298.15 | 6.28 | 93.11 | 278.79 | 78.96 |
| 326 | 6.38 | 13.45 | 618 | 8.32 | 1.33 | 1.16 | 2.25 | 2.83 | .52 | .72 | .67 |
| | | | | 358.82 | 148.94 | 19.57 | 292.89 | 15.81 | 118.59 | 286.86 | 81.84 |
| 327 | 4.23 | 13.96 | 618 | 9.24 | 1.81 | 1.27 | 2.38 | 2.15 | .49 | .45 | .84 |
| | | | | 351.45 | 131.85 | 357.24 | 276.32 | 352.95 | 46.45 | 264.82 | 46.74 |
| 328 | 1.76 | 16.77 | 619 | 11.29 | .97 | 2.28 | 2.88 | 3.19 | 1.53 | .26 | 1.84 |
| | | | | 359.55 | 88.55 | 359.47 | 382.33 | 22.69 | 58.49 | 132.84 | 86.85 |
| 329 | -1.21 | 28.64 | 618 | 13.95 | 1.88 | 3.85 | 2.36 | 3.44 | 2.23 | 1.57 | .98 |
| | | | | 3.21 | 51.81 | 359.58 | 388.18 | 28.89 | 75.61 | 148.17 | 121.29 |
| 338 | 9.64 | 9.76 | 619 | 6.82 | .78 | 1.76 | 1.83 | 1.99 | .44 | .66 | 1.88 |
| | | | | 326.92 | 126.21 | 335.88 | 277.88 | 338.43 | 61.85 | 275.75 | 97.19 |
| 331 | 7.77 | 9.28 | 619 | 6.24 | .39 | 1.55 | 1.59 | 1.79 | .53 | .88 | .82 |
| | | | | 337.66 | 148.52 | 342.88 | 277.44 | 353.28 | 76.19 | 288.13 | 184.69 |
| 332 | 6.85 | 9.71 | 619 | 6.63 | .26 | 1.43 | 1.95 | 2.88 | .34 | .73 | .15 |
| | | | | 344.84 | 284.64 | 338.83 | 278.91 | 357.71 | 69.63 | 287.36 | 226.55 |
| 334 | 4.89 | 11.48 | 619 | 7.58 | .42 | 1.33 | 2.15 | 2.85 | .39 | .83 | .13 |
| | | | | 355.33 | 191.84 | 337.28 | 278.83 | 6.25 | 47.59 | 288.36 | 262.63 |
| 335 | 2.19 | 12.23 | 628 | 8.56 | .54 | 1.27 | 2.53 | 2.31 | .46 | .86 | .16 |
| | | | | .25 | 178.91 | 313.83 | 264.46 | 355.96 | 45.72 | 261.18 | 284.24 |
| 336 | 1.25 | 13.12 | 619 | 9.19 | .64 | 1.21 | 2.67 | 2.59 | .54 | .77 | .25 |
| | | | | 3.86 | 173.35 | 318.77 | 265.87 | 359.79 | 45.93 | 262.74 | 257.29 |
| 371 | 7.65 | 7.88 | 621 | 5.89 | .47 | 1.97 | 1.24 | 1.89 | .38 | .88 | .24 |
| | | | | 327.77 | 278.28 | 328.76 | 257.88 | 388.69 | 35.65 | 246.38 | 94.33 |
| 372 | 5.79 | 8.28 | 628 | 5.73 | .78 | 1.78 | 1.56 | 2.89 | .21 | .59 | .27 |
| | | | | 348.89 | 269.27 | 324.59 | 255.41 | 316.58 | 355.95 | 268.94 | 132.33 |
| 373 | 3.92 | 9.15 | 628 | 5.46 | .86 | 1.67 | 1.86 | 1.99 | .89 | .85 | .16 |
| | | | | 352.29 | 269.75 | 323.35 | 278.57 | 333.38 | 34.19 | 267.21 | 92.67 |
| 374 | 2.85 | 18.96 | 619 | 7.56 | .86 | 1.66 | 2.37 | 2.12 | .18 | .87 | .16 |
| | | | | 1.68 | 253.51 | 313.45 | 288.87 | 358.11 | 185.88 | 273.34 | 68.82 |
| 375 | -.86 | 13.13 | 619 | 9.83 | .98 | 1.88 | 3.87 | 2.74 | .39 | .56 | .85 |
| | | | | 5.88 | 226.84 | 289.21 | 278.38 | 348.65 | 65.68 | 268.51 | 298.39 |
| 376 | 6.95 | 7.18 | 628 | 3.62 | 1.24 | 2.23 | .87 | 1.58 | .42 | .37 | .13 |
| | | | | 322.96 | 281.56 | 328.16 | 279.11 | 332.99 | 69.85 | 267.15 | 184.89 |
| 377 | 5.18 | 7.36 | 628 | 4.24 | 1.39 | 1.95 | 1.88 | 1.73 | .24 | .36 | .23 |
| | | | | 339.18 | 278.63 | 324.24 | 274.26 | 338.21 | 49.96 | 315.71 | 117.39 |
| 378 | 3.24 | 7.61 | 628 | 5.24 | 1.47 | 1.92 | 1.51 | 1.73 | .27 | .46 | .11 |
| | | | | 358.88 | 271.85 | 386.79 | 262.73 | 326.78 | 7.42 | 237.74 | 357.46 |
| 379 | 1.37 | 8.91 | 628 | 5.52 | 1.48 | 2.81 | 2.17 | 1.92 | .13 | .43 | .88 |
| | | | | 357.25 | 253.28 | 285.15 | 256.86 | 316.37 | 46.58 | 289.22 | 17.65 |
| 388 | -.56 | 18.98 | 619 | 7.98 | 1.58 | 2.12 | 2.66 | 2.18 | .28 | .42 | .14 |
| | | | | 7.78 | 248.13 | 275.53 | 271.12 | 338.78 | 181.28 | 237.47 | 354.49 |

TABLE VII.- Continued

(f) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 32.88 | 21.81 | 618 | 11.58 | 7.58 | 5.26 | 2.32 | 3.18 | .38 | .37 | 1.28 AMP |
| 325 | 32.95 | 24.89 | 618 | 138.34 | 317.16 | 16.93 | 322.18 | 185.81 | 352.76 | 383.88 | 247.87 PHASE |
| 326 | 33.83 | 25.56 | 618 | 12.93 | 8.59 | 6.34 | 2.49 | 3.52 | .33 | .36 | 1.31 AMP |
| 327 | 34.61 | 26.92 | 618 | 138.75 | 316.39 | 19.19 | 322.14 | 183.39 | 348.59 | 388.98 | 239.72 PHASE |
| 328 | 35.12 | 28.98 | 619 | 13.99 | 9.55 | 7.58 | 2.66 | 3.22 | .26 | .43 | 1.23 AMP |
| 329 | 36.84 | 38.68 | 618 | 139.63 | 318.15 | 21.68 | 327.71 | 118.49 | 1.83 | 383.48 | 249.63 PHASE |
| 330 | 33.89 | 18.95 | 619 | 14.82 | 18.64 | 8.34 | 2.79 | 2.98 | .28 | .51 | 1.86 AMP |
| 331 | 34.25 | 28.53 | 619 | 133.93 | 386.41 | 4.99 | 381.11 | 81.84 | 338.78 | 273.58 | 215.24 PHASE |
| 332 | 35.27 | 22.38 | 619 | 15.95 | 12.22 | 8.71 | 3.15 | 2.94 | .88 | .71 | 1.83 AMP |
| 333 | 36.12 | 24.87 | 619 | 136.18 | 313.56 | 7.66 | 297.31 | 184.34 | 211.45 | 279.89 | 234.97 PHASE |
| 334 | 37.83 | 27.34 | 628 | 16.71 | 13.62 | 9.24 | 3.46 | 2.75 | .26 | .83 | .58 AMP |
| 335 | 37.44 | 28.11 | 619 | 131.86 | 312.87 | 358.56 | 279.75 | 97.92 | 193.45 | 268.21 | 285.36 PHASE |
| 336 | 37.44 | 28.11 | 619 | 9.35 | 6.56 | 3.68 | 1.46 | 4.12 | .68 | .36 | .73 AMP |
| 337 | 38.84 | 17.31 | 628 | 135.13 | 322.58 | 3.85 | 316.18 | 72.84 | 337.99 | 262.19 | 216.89 PHASE |
| 338 | 38.87 | 25.88 | 619 | 18.49 | 7.57 | 5.37 | 1.79 | 3.91 | .76 | .48 | .75 AMP |
| 339 | 38.87 | 25.88 | 619 | 136.84 | 328.35 | 12.65 | 323.82 | 75.52 | 324.83 | 266.88 | 285.35 PHASE |
| 340 | 38.87 | 25.88 | 619 | 11.61 | 8.46 | 7.14 | 2.37 | 3.78 | .78 | .38 | .64 AMP |
| 341 | 38.87 | 25.88 | 619 | 135.25 | 316.61 | 12.38 | 323.78 | 73.87 | 322.78 | 287.98 | 218.84 PHASE |
| 342 | 38.87 | 25.88 | 619 | 13.88 | 9.43 | 8.31 | 2.41 | 3.88 | .51 | .36 | .66 AMP |
| 343 | 38.87 | 25.88 | 619 | 136.28 | 315.37 | 16.86 | 323.38 | 77.98 | 323.31 | 265.88 | 188.72 PHASE |
| 344 | 38.87 | 25.88 | 619 | 14.33 | 18.36 | 9.59 | 2.68 | 4.19 | .45 | .45 | .72 AMP |
| 345 | 38.87 | 25.88 | 619 | 131.67 | 387.78 | 7.34 | 388.28 | 61.82 | 313.76 | 242.78 | 156.42 PHASE |
| 346 | 38.87 | 25.88 | 619 | 14.98 | 18.59 | 18.11 | 2.73 | 4.15 | .38 | .45 | .68 AMP |
| 347 | 38.87 | 25.88 | 619 | 131.19 | 388.17 | 7.42 | 318.86 | 61.86 | 311.98 | 241.98 | 158.83 PHASE |
| 348 | 38.87 | 25.88 | 619 | 13.19 | 8.78 | 6.28 | 1.53 | 3.86 | .59 | .22 | .49 AMP |
| 349 | 38.87 | 25.88 | 619 | 131.77 | 314.27 | 349.16 | 328.16 | 48.11 | 293.92 | 275.91 | 168.67 PHASE |
| 350 | 38.87 | 25.88 | 619 | 9.86 | 7.89 | 6.14 | 1.98 | 3.78 | .36 | .22 | .43 AMP |
| 351 | 38.87 | 25.88 | 619 | 132.88 | 312.99 | 359.86 | 322.57 | 42.84 | 292.22 | 272.22 | 176.88 PHASE |
| 352 | 38.87 | 25.88 | 619 | 11.15 | 7.91 | 7.58 | 2.25 | 4.81 | .31 | .21 | .47 AMP |
| 353 | 38.87 | 25.88 | 619 | 135.21 | 318.39 | 12.87 | 336.44 | 55.59 | 275.43 | 283.68 | 185.85 PHASE |
| 354 | 38.87 | 25.88 | 619 | 12.52 | 8.67 | 8.58 | 2.45 | 4.38 | .38 | .38 | .58 AMP |
| 355 | 38.87 | 25.88 | 619 | 136.75 | 328.98 | 28.64 | 341.73 | 65.56 | 259.48 | 273.75 | 189.36 PHASE |
| 356 | 38.87 | 25.88 | 619 | 14.28 | 9.78 | 9.75 | 2.49 | 4.21 | .58 | .58 | .68 AMP |
| 357 | 38.87 | 25.88 | 619 | 132.58 | 313.76 | 11.63 | 326.99 | 55.13 | 288.23 | 257.76 | 158.92 PHASE |
| 358 | 38.87 | 25.88 | 619 | 7.18 | 5.46 | 3.73 | 1.83 | 2.55 | .35 | .16 | .48 AMP |
| 359 | 38.87 | 25.88 | 619 | 133.38 | 328.29 | 341.38 | 335.47 | 54.33 | 262.78 | 262.64 | 174.17 PHASE |
| 360 | 38.87 | 25.88 | 619 | 8.15 | 6.18 | 5.12 | 1.45 | 2.56 | .25 | .24 | .26 AMP |
| 361 | 38.87 | 25.88 | 619 | 134.78 | 319.49 | 357.96 | 338.64 | 59.17 | 278.58 | 289.66 | 194.55 PHASE |
| 362 | 38.87 | 25.88 | 619 | 13.61 | 7.88 | 6.18 | 1.96 | 3.88 | .29 | .19 | .24 AMP |
| 363 | 38.87 | 25.88 | 619 | 131.86 | 313.55 | 1.52 | 335.88 | 42.17 | 288.26 | 228.73 | 142.84 PHASE |
| 364 | 38.87 | 25.88 | 619 | 18.92 | 7.88 | 7.26 | 3.36 | 3.68 | .26 | .22 | .22 AMP |
| 365 | 38.87 | 25.88 | 619 | 129.72 | 386.89 | 359.61 | 326.48 | 29.42 | 171.88 | 246.66 | 121.88 PHASE |
| 366 | 38.87 | 25.88 | 619 | 12.42 | 8.49 | 8.36 | 2.72 | 4.88 | .55 | .48 | .31 AMP |
| 367 | 38.87 | 25.88 | 619 | 131.44 | 312.68 | 15.43 | 336.87 | 51.68 | 174.85 | 288.27 | 151.75 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 21.95 | 47.24 | 618 | 19.15 | 6.51 | 6.87 | 18.53 | 6.94 | 3.91 | 4.35 | 3.68 AMP |
| 325 | 28.72 | 48.11 | 618 | 273.24 | 116.45 | 275.88 | 57.88 | 38.33 | 139.41 | 53.83 | 182.87 PHASE |
| 326 | 19.48 | 78.41 | 618 | 24.59 | 18.36 | 8.91 | 11.44 | 6.94 | 11.55 | 4.51 | 4.77 AMP |
| 327 | 18.16 | 77.81 | 618 | 291.94 | 122.86 | 273.38 | 61.83 | 359.86 | 315.12 | 69.28 | 168.27 PHASE |
| 328 | 16.91 | 99.99 | 619 | 31.91 | 14.35 | 18.75 | 16.84 | 18.36 | 18.78 | 5.94 | 5.83 AMP |
| 329 | 15.92 | 132.46 | 618 | 388.63 | 127.82 | 276.77 | 57.97 | .82 | 53.22 | 96.28 | 186.43 PHASE |
| 330 | 21.58 | 36.67 | 619 | 38.65 | 18.49 | 14.48 | 17.88 | 11.54 | 9.52 | 8.77 | 4.88 AMP |
| 331 | 21.22 | 53.69 | 619 | 315.91 | 127.23 | 259.32 | 48.28 | 338.47 | 95.66 | 81.68 | 158.76 PHASE |
| 332 | 21.39 | 68.99 | 619 | 48.13 | 23.28 | 19.74 | 19.14 | 12.53 | 28.79 | 11.52 | 6.77 AMP |
| 333 | 21.58 | 36.67 | 619 | 332.43 | 137.88 | 266.34 | 48.65 | 342.64 | 171.97 | 133.81 | 139.93 PHASE |
| 334 | 28.79 | 78.17 | 619 | 57.41 | 26.36 | 27.22 | 17.28 | 16.22 | 34.91 | 13.97 | 6.92 AMP |
| 335 | 19.96 | 89.99 | 628 | 348.25 | 144.74 | 262.68 | 17.97 | 314.67 | 196.82 | 142.68 | 185.59 PHASE |
| 336 | 19.27 | 94.68 | 619 | 12.44 | 4.61 | 4.22 | 18.26 | 5.11 | 8.69 | 4.66 | 1.71 AMP |
| 337 | 22.97 | 52.47 | 621 | 266.82 | 128.17 | 268.42 | 54.18 | 22.81 | 315.26 | 11.26 | 156.34 PHASE |
| 338 | 22.97 | 52.47 | 621 | 16.88 | 7.54 | 6.44 | 13.68 | 13.68 | 21.24 | 5.37 | 2.88 AMP |
| 339 | 22.97 | 52.47 | 621 | 293.88 | 138.82 | 262.48 | 53.64 | 347.94 | 346.88 | 28.36 | 148.82 PHASE |
| 340 | 22.97 | 52.47 | 621 | 23.33 | 11.43 | 9.58 | 19.47 | 16.55 | 15.61 | 7.54 | 1.98 AMP |
| 341 | 22.97 | 52.47 | 621 | 389.94 | 131.84 | 248.75 | 44.78 | 339.38 | 22.68 | 22.77 | 145.72 PHASE |
| 342 | 22.97 | 52.47 | 621 | 31.87 | 15.38 | 15.52 | 23.88 | 14.28 | 6.74 | 5.49 | 3.18 AMP |
| 343 | 22.97 | 52.47 | 621 | 327.63 | 148.35 | 251.49 | 47.88 | 348.83 | 21.98 | 54.78 | 137.76 PHASE |
| 344 | 22.97 | 52.47 | 621 | 48.56 | 19.18 | 21.68 | 27.97 | 12.62 | 3.42 | 5.58 | 3.26 AMP |
| 345 | 22.97 | 52.47 | 621 | 332.47 | 148.85 | 247.22 | 36.54 | 324.87 | 6.37 | 59.56 | 187.65 PHASE |
| 346 | 22.97 | 52.47 | 621 | 44.47 | 28.35 | 25.13 | 29.49 | 12.68 | 5.17 | 5.49 | 3.79 AMP |
| 347 | 22.97 | 52.47 | 621 | 334.97 | 141.66 | 248.11 | 36.49 | 325.39 | 15.22 | 71.18 | 185.67 PHASE |
| 348 | 22.97 | 52.47 | 621 | 18.94 | 5.11 | 4.85 | 11.45 | 5.65 | 27.85 | 5.23 | 2.22 AMP |
| 349 | 22.97 | 52.47 | 621 | 287.21 | 158.69 | 227.93 | 41.61 | 292.58 | 292.63 | 321.99 | 188.63 PHASE |
| 350 | 22.97 | 52.47 | 621 | 16.95 | 8.63 | 9.16 | 15.74 | 6.25 | 13.19 | 5.88 | 1.75 AMP |
| 351 | 22.97 | 52.47 | 621 | 318.31 | 147.87 | 222.56 | 34.97 | 382.16 | 335.29 | 352.47 | 188.73 PHASE |
| 352 | 22.97 | 52.47 | 621 | 24.57 | 11.69 | 15.28 | 28.16 | 4.24 | 5.86 | 3.92 | 3.15 AMP |
| 353 | 22.97 | 52.47 | 621 | 335.68 | 157.88 | 236.25 | 47.84 | 386.76 | 294.63 | 28.11 | 117.95 PHASE |
| 354 | 22.97 | 52.47 | 621 | 33.93 | 14.33 | 22.49 | 25.83 | 2.96 | 8.36 | 2.88 | 3.86 AMP |
| 355 | 22.97 | 52.47 | 621 | 345.71 | 168.15 | 248.34 | 51.89 | 277.64 | 287.45 | 49.81 | 132.53 PHASE |
| 356 | 22.97 | 52.47 | 621 | 46.86 | 19.31 | 31.89 | 38.74 | 4.46 | 17.56 | 4.13 | 4.51 AMP |
| 357 | 22.97 | 52.47 | 621 | 348.89 | 156.84 | 241.16 | 37.36 | 241.98 | 314.85 | 28.86 | 185.35 PHASE |
| 358 | 22.97 | 52.47 | 621 | 6.97 | 3.77 | 3.77 | 9.22 | 2.17 | 28.85 | 3.89 | 1.36 AMP |
| 359 | 22.97 | 52.47 | 621 | 265.77 | 219.77 | 194.31 | 49.11 | 179.88 | 384.69 | 325.67 | 118.53 PHASE |
| 360 | 22.97 | 52.47 | 621 | 18.39 | 5.92 | 7.27 | 12.23 | 3.44 | 16.85 | 5.81 | 1.25 AMP |
| 361 | 22.97 | 52.47 | 621 | 313.63 | 193.44 | 289.57 | 45.82 | 274.74 | 11.85 | 353.81 | 185.98 PHASE |
| 362 | 22.97 | 52.47 | 621 | 19.94 | 8.73 | 13.55 | 18.14 | 4.48 | 4.22 | 1.93 | 2.14 AMP |
| 363 | 22.97 | 52.47 | 621 | 341.72 | 177.48 | 216.98 | 38.26 | 233.56 | 288.24 | 9.52 | 88.39 PHASE |
| 364 | 22.97 | 52.47 | 621 | 38.25 | 12.58 | 21.25 | 22.85 | 6.88 | 12.98 | 1.32 | 2.58 AMP |
| 365 | 22.97 | 52.47 | 621 | 358.86 | 169.98 | 222.48 | 26.83 | 181.14 | 233.56 | 354.22 | 61.12 PHASE |
| 366 | 22.97 | 52.47 | 621 | 43.12 | 15.66 | 28.87 | 24.72 | 11.91 | 14.19 | 2.94 | 3.25 AMP |
| 367 | 22.97 | 52.47 | 621 | 357.95 | 176.54 | 241.48 | 36.11 | 187.51 | 267.16 | 352.66 | 94.12 PHASE |

TABLE VII.- Continued

(f) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 9.84 | 12.87 | 618 | 8.41 | 2.88 | .42 | 1.73 | 1.76 | .54 | .38 | .44 |
| | | | | 328.59 | 119.23 | 356.93 | 266.86 | 326.48 | 46.89 | 249.85 | 28.13 |
| 325 | 7.14 | 12.74 | 618 | 8.76 | 1.92 | .58 | 1.76 | 1.73 | .66 | .63 | .54 |
| | | | | 334.38 | 128.94 | 356.76 | 264.23 | 322.53 | 54.89 | 235.27 | 18.99 |
| 326 | 5.16 | 13.32 | 618 | 9.42 | 1.94 | .35 | 1.92 | 1.83 | .47 | .49 | .46 |
| | | | | 341.96 | 122.54 | 24.27 | 259.85 | 331.75 | 83.32 | 253.77 | 28.41 |
| 327 | 3.11 | 13.63 | 618 | 18.36 | 1.77 | .31 | 1.99 | 1.89 | .39 | .31 | .61 |
| | | | | 342.19 | 183.86 | 359.66 | 245.29 | 389.74 | 12.14 | 247.11 | 353.31 |
| 328 | .74 | 15.87 | 619 | 12.31 | 1.83 | .94 | 2.31 | 2.66 | 1.21 | .27 | .77 |
| | | | | 349.18 | 83.96 | 341.53 | 275.29 | 342.41 | 14.91 | 41.15 | 38.72 |
| 329 | -2.85 | 17.82 | 618 | 14.74 | 2.51 | 1.58 | 1.98 | 2.77 | 1.78 | 1.16 | .61 |
| | | | | 351.85 | 55.55 | 347.94 | 279.83 | 358.88 | 29.64 | 98.32 | 65.68 |
| 330 | 8.89 | 9.86 | 619 | 7.15 | 1.36 | .95 | 1.69 | 1.88 | .37 | .44 | .89 |
| | | | | 324.75 | 182.91 | 388.32 | 244.44 | 295.41 | 25.35 | 241.78 | 51.66 |
| 331 | 6.27 | 9.78 | 619 | 7.51 | 1.86 | .68 | 1.42 | 1.62 | .47 | .64 | .86 |
| | | | | 332.95 | 185.42 | 313.88 | 244.69 | 388.77 | 45.48 | 249.11 | 32.43 |
| 332 | 4.56 | 18.62 | 619 | 8.11 | 1.88 | .48 | 1.72 | 1.87 | .36 | .55 | .85 |
| | | | | 338.38 | 111.31 | 295.61 | 238.76 | 312.73 | 45.97 | 248.29 | 158.34 |
| 334 | 2.66 | 11.67 | 619 | 9.83 | 1.88 | .38 | 1.89 | 1.87 | .31 | .58 | .84 |
| | | | | 346.69 | 118.15 | 268.71 | 246.53 | 319.75 | 38.89 | 239.18 | 264.77 |
| 335 | .82 | 12.98 | 628 | 9.98 | 1.25 | .65 | 2.19 | 2.85 | .36 | .58 | .12 |
| | | | | 349.92 | 118.66 | 222.83 | 234.88 | 318.36 | 25.72 | 217.26 | 273.56 |
| 336 | -.88 | 13.84 | 619 | 18.56 | 1.38 | .69 | 2.32 | 2.26 | .41 | .52 | .18 |
| | | | | 352.42 | 112.32 | 215.89 | 235.89 | 315.82 | 27.11 | 219.19 | 232.41 |
| 371 | 5.99 | 7.74 | 621 | 6.53 | .31 | .98 | 1.24 | 1.72 | .25 | .58 | .17 |
| | | | | 326.68 | 81.35 | 298.47 | 225.28 | 265.84 | .48 | 288.55 | 32.72 |
| 372 | 4.16 | 8.87 | 628 | 7.25 | .17 | .74 | 1.45 | 1.85 | .15 | .49 | .17 |
| | | | | 335.37 | 122.44 | 287.89 | 225.43 | 271.69 | 337.89 | 231.84 | 73.19 |
| 373 | 2.36 | 9.94 | 628 | 8.82 | .27 | .79 | 1.78 | 1.84 | .13 | .66 | .88 |
| | | | | 345.86 | 157.47 | 278.26 | 239.68 | 288.64 | 68.26 | 228.88 | 24.33 |
| 374 | .57 | 11.32 | 619 | 9.82 | .68 | 1.88 | 2.15 | 1.92 | .23 | .67 | .14 |
| | | | | 352.35 | 159.82 | 254.13 | 249.86 | 385.98 | 82.88 | 238.32 | 345.36 |
| 375 | -1.46 | 13.71 | 619 | 18.42 | .94 | 1.37 | 2.72 | 2.41 | .39 | .46 | .86 |
| | | | | 354.59 | 158.97 | 231.85 | 239.26 | 384.34 | 38.89 | 228.86 | 296.31 |
| 376 | 5.35 | 6.37 | 628 | 5.27 | .34 | 1.24 | .94 | 1.42 | .35 | .31 | .11 |
| | | | | 327.28 | 283.96 | 289.88 | 246.68 | 298.21 | 22.81 | 233.15 | 27.83 |
| 377 | 3.65 | 6.77 | 628 | 5.98 | .48 | .99 | 1.87 | 1.56 | .28 | .35 | .15 |
| | | | | 337.83 | 263.88 | 288.91 | 243.94 | 294.74 | 4.31 | 271.89 | 52.32 |
| 378 | 1.82 | 8.69 | 628 | 6.99 | .54 | 1.85 | 1.45 | 1.56 | .21 | .38 | .18 |
| | | | | 343.57 | 244.84 | 265.47 | 231.11 | 282.73 | 324.78 | 193.66 | 381.25 |
| 379 | -.81 | 9.93 | 628 | 8.15 | .67 | 1.38 | 1.99 | 1.73 | .14 | .35 | .85 |
| | | | | 347.31 | 213.26 | 238.21 | 222.93 | 271.68 | 25.88 | 178.94 | 294.87 |
| 388 | -1.91 | 12.33 | 619 | 9.48 | 1.84 | 1.71 | 2.36 | 1.97 | .28 | .35 | .13 |
| | | | | 356.33 | 193.97 | 228.24 | 238.84 | 294.73 | 55.78 | 282.87 | 381.86 |

TABLE VII.- Continued

(f) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 19.96 | 26.92 | 618 | 14.47 | 9.11 | 6.57 | 1.89 | 2.59 | 1.13 | 2.36 | 3.96 AMP |
| | | | | 128.95 | 316.83 | 18.61 | 323.77 | 268.67 | 169.89 | 44.88 | 251.81 PHASE |
| 325 | 28.81 | 29.88 | 618 | 16.19 | 10.55 | 7.79 | 1.26 | 2.58 | 1.11 | 2.78 | 4.88 AMP |
| | | | | 138.58 | 315.81 | 14.89 | 329.19 | 262.34 | 173.93 | 41.76 | 242.41 PHASE |
| 326 | 21.65 | 31.73 | 618 | 17.69 | 11.82 | 9.14 | 1.39 | 2.64 | .81 | 2.19 | 3.73 AMP |
| | | | | 133.28 | 316.88 | 17.33 | 334.23 | 266.27 | 187.13 | 58.28 | 252.81 PHASE |
| 327 | 22.29 | 32.98 | 618 | 18.84 | 13.31 | 10.37 | 1.59 | 2.72 | .64 | 1.85 | 3.19 AMP |
| | | | | 128.72 | 385.36 | 1.88 | 318.48 | 248.38 | 144.12 | 7.67 | 215.81 PHASE |
| 328 | 22.62 | 35.89 | 619 | 28.13 | 15.51 | 11.82 | 1.69 | 2.88 | .53 | 1.68 | 2.28 AMP |
| | | | | 132.48 | 311.31 | 5.55 | 382.91 | 255.58 | 177.56 | 4.36 | 236.68 PHASE |
| 329 | 23.82 | 37.29 | 618 | 28.99 | 17.66 | 11.78 | 1.72 | 3.85 | .59 | 1.91 | 5.98 AMP |
| | | | | 129.78 | 389.15 | 358.92 | 298.33 | 251.26 | 163.99 | 341.26 | 162.93 PHASE |
| 330 | 21.43 | 21.89 | 619 | 11.88 | 8.19 | 4.59 | 1.19 | 2.11 | 1.22 | 1.87 | 1.57 AMP |
| | | | | 124.17 | 323.16 | 359.36 | 318.84 | 242.68 | 138.34 | 52.28 | 229.89 PHASE |
| 331 | 22.38 | 23.83 | 619 | 13.21 | 9.55 | 6.61 | 1.58 | 2.18 | 1.13 | 1.77 | 1.69 AMP |
| | | | | 126.48 | 318.56 | 9.57 | 328.71 | 243.31 | 149.78 | 55.48 | 216.52 PHASE |
| 332 | 23.29 | 25.75 | 619 | 14.72 | 18.72 | 8.77 | 1.69 | 2.38 | .88 | 1.54 | 1.55 AMP |
| | | | | 126.91 | 314.93 | 18.81 | 321.77 | 248.89 | 134.97 | 46.39 | 222.87 PHASE |
| 334 | 23.95 | 29.65 | 619 | 16.62 | 12.19 | 18.48 | 1.76 | 2.48 | .98 | 1.47 | 1.31 AMP |
| | | | | 129.74 | 314.85 | 15.63 | 328.91 | 242.57 | 146.61 | 54.11 | 197.33 PHASE |
| 335 | 24.79 | 33.17 | 628 | 18.31 | 13.52 | 12.13 | 1.82 | 2.47 | .85 | 1.18 | 1.65 AMP |
| | | | | 126.73 | 385.73 | 8.38 | 311.18 | 228.45 | 126.38 | 46.98 | 161.28 PHASE |
| 336 | 25.15 | 35.81 | 619 | 19.85 | 13.89 | 12.84 | 1.74 | 2.54 | .93 | .93 | 1.54 AMP |
| | | | | 127.84 | 385.78 | 8.82 | 311.65 | 227.62 | 127.53 | 52.46 | 151.79 PHASE |
| 371 | 23.38 | 18.64 | 621 | 11.85 | 7.87 | 5.48 | 1.29 | 1.44 | .63 | 1.55 | 1.16 AMP |
| | | | | 121.11 | 313.15 | 346.49 | 287.58 | 221.67 | 133.49 | 19.99 | 174.25 PHASE |
| 372 | 24.22 | 21.34 | 628 | 12.68 | 8.98 | 7.71 | 1.26 | 1.68 | .81 | 1.89 | 1.81 AMP |
| | | | | 123.99 | 311.84 | 355.72 | 292.88 | 219.95 | 128.74 | 35.59 | 285.82 PHASE |
| 373 | 25.17 | 25.35 | 628 | 14.26 | 18.81 | 9.43 | 1.23 | 1.72 | .63 | 1.24 | .95 AMP |
| | | | | 128.59 | 314.32 | 18.97 | 386.48 | 237.24 | 154.28 | 51.16 | 192.85 PHASE |
| 374 | 25.91 | 29.36 | 619 | 16.13 | 11.13 | 11.85 | 1.84 | 1.78 | .62 | 1.88 | 1.23 AMP |
| | | | | 131.47 | 315.97 | 28.13 | 318.37 | 247.72 | 161.34 | 63.86 | 179.64 PHASE |
| 375 | 26.77 | 33.46 | 619 | 18.39 | 12.66 | 12.99 | .81 | 1.92 | .66 | .75 | 1.22 AMP |
| | | | | 128.59 | 388.61 | 13.35 | 384.32 | 232.82 | 136.15 | 33.51 | 145.52 PHASE |
| 376 | 25.22 | 15.51 | 628 | 8.95 | 6.98 | 4.43 | 1.85 | .51 | .68 | .98 | 1.98 AMP |
| | | | | 122.11 | 318.23 | 337.98 | 285.49 | 235.56 | 182.71 | 31.17 | 165.64 PHASE |
| 377 | 26.83 | 16.92 | 628 | 18.52 | 7.65 | 6.29 | 1.22 | 1.14 | .58 | .48 | .72 AMP |
| | | | | 125.77 | 316.78 | 354.15 | 294.74 | 233.92 | 166.97 | 44.93 | 285.87 PHASE |
| 378 | 27.82 | 21.98 | 628 | 12.48 | 8.71 | 7.71 | .98 | 1.22 | .64 | .75 | .72 AMP |
| | | | | 125.99 | 389.85 | 358.57 | 286.85 | 232.41 | 144.85 | 29.32 | 148.64 PHASE |
| 379 | 27.75 | 25.17 | 628 | 14.29 | 9.72 | 9.35 | .64 | 1.28 | .46 | .73 | .53 AMP |
| | | | | 125.18 | 388.67 | 358.74 | 268.77 | 226.83 | 111.31 | 352.48 | 88.99 PHASE |
| 388 | 28.79 | 29.16 | 619 | 16.38 | 18.37 | 11.11 | .29 | 1.38 | .43 | .64 | .85 AMP |
| | | | | 129.48 | 386.51 | 17.85 | 268.42 | 243.83 | 143.52 | 1.61 | 118.65 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 22.39 | 52.79 | 618 | 18.48 | 5.56 | 5.87 | 12.21 | 7.49 | 4.45 | 5.94 | 5.13 AMP |
| | | | | 277.81 | 126.76 | 295.36 | 57.68 | 36.87 | 15.29 | 54.46 | 197.42 PHASE |
| 326 | 28.92 | 55.87 | 618 | 24.82 | 8.65 | 8.47 | 13.97 | 7.63 | 15.35 | 6.53 | 5.21 AMP |
| | | | | 292.89 | 125.55 | 292.23 | 61.13 | 1.18 | 313.86 | 68.99 | 182.77 PHASE |
| 326 | 19.31 | 71.74 | 618 | 38.95 | 11.75 | 18.48 | 19.44 | 11.86 | 12.59 | 8.29 | 6.48 AMP |
| | | | | 387.11 | 129.61 | 297.65 | 58.68 | .41 | 47.13 | 94.33 | 285.58 PHASE |
| 327 | 17.58 | 82.92 | 618 | 37.37 | 15.36 | 13.95 | 21.87 | 11.79 | 9.58 | 11.35 | 5.46 AMP |
| | | | | 312.25 | 127.43 | 279.81 | 48.46 | 336.48 | 97.78 | 83.79 | 148.87 PHASE |
| 328 | 15.96 | 188.47 | 619 | 45.48 | 28.88 | 19.47 | 23.13 | 13.34 | 24.33 | 14.26 | 7.44 AMP |
| | | | | 326.67 | 136.88 | 281.89 | 47.45 | 335.74 | 188.88 | 139.88 | 151.93 PHASE |
| 329 | 14.96 | 131.85 | 618 | 51.88 | 24.13 | 27.58 | 22.11 | 19.31 | 42.54 | 17.32 | 8.58 AMP |
| | | | | 334.11 | 144.13 | 275.39 | 17.87 | 389.84 | 282.78 | 151.53 | 111.23 PHASE |
| 330 | 28.51 | 48.71 | 619 | 11.88 | 4.88 | 3.88 | 11.88 | 5.25 | 18.67 | 6.29 | 2.55 AMP |
| | | | | 274.78 | 136.97 | 291.57 | 53.18 | 18.15 | 313.88 | 15.86 | 166.78 PHASE |
| 331 | 28.28 | 68.98 | 619 | 16.57 | 6.42 | 5.81 | 16.12 | 15.83 | 26.24 | 7.44 | 2.98 AMP |
| | | | | 295.93 | 136.84 | 287.93 | 53.34 | 348.22 | 345.89 | 24.85 | 161.82 PHASE |
| 332 | 28.19 | 77.99 | 619 | 22.78 | 9.49 | 7.95 | 22.95 | 17.83 | 18.79 | 18.24 | 2.21 AMP |
| | | | | 389.82 | 138.93 | 274.36 | 45.68 | 339.14 | 21.64 | 26.69 | 168.59 PHASE |
| 334 | 19.48 | 74.65 | 619 | 38.41 | 12.85 | 13.47 | 28.86 | 14.97 | 7.99 | 7.45 | 3.86 AMP |
| | | | | 322.72 | 143.26 | 273.75 | 49.15 | 338.75 | 16.44 | 59.35 | 152.84 PHASE |
| 335 | 18.39 | 91.51 | 628 | 37.96 | 16.24 | 19.47 | 33.15 | 13.15 | 3.88 | 7.88 | 4.87 AMP |
| | | | | 326.45 | 142.37 | 267.85 | 37.42 | 322.88 | 345.71 | 64.91 | 127.26 PHASE |
| 336 | 17.69 | 93.66 | 619 | 41.58 | 17.36 | 22.82 | 35.16 | 13.17 | 5.73 | 7.39 | 4.48 AMP |
| | | | | 328.73 | 143.73 | 267.96 | 37.41 | 324.55 | 2.53 | 77.25 | 122.82 PHASE |
| 371 | 22.83 | 61.33 | 621 | 18.67 | 4.68 | 3.85 | 13.59 | 6.38 | 34.82 | 7.24 | 3.14 AMP |
| | | | | 291.36 | 178.29 | 257.17 | 38.63 | 298.95 | 294.86 | 328.16 | 119.65 PHASE |
| 372 | 22.96 | 63.88 | 628 | 16.58 | 7.47 | 7.88 | 19.88 | 16.45 | 7.62 | 7.62 | 2.42 AMP |
| | | | | 315.57 | 156.27 | 246.71 | 35.27 | 296.98 | 335.88 | 358.23 | 125.23 PHASE |
| 373 | 23.18 | 65.63 | 628 | 23.26 | 18.23 | 12.23 | 24.16 | 4.41 | 7.84 | 4.96 | 4.69 AMP |
| | | | | 329.88 | 164.14 | 257.41 | 48.45 | 297.26 | 294.18 | 33.72 | 133.89 PHASE |
| 374 | 23.83 | 95.38 | 619 | 31.26 | 12.61 | 18.88 | 29.95 | 3.14 | 11.48 | 3.32 | 5.69 AMP |
| | | | | 338.99 | 164.63 | 267.71 | 54.18 | 265.85 | 286.89 | 53.47 | 149.36 PHASE |
| 375 | 22.86 | 111.38 | 619 | 42.41 | 16.88 | 26.69 | 36.91 | 5.81 | 9.68 | 4.72 | 5.77 AMP |
| | | | | 348.86 | 161.37 | 261.78 | 39.59 | 229.14 | 389.58 | 27.31 | 124.58 PHASE |
| 376 | 22.87 | 58.41 | 628 | 6.62 | 4.45 | 1.82 | 18.94 | 2.64 | 25.45 | 3.89 | 1.76 AMP |
| | | | | 272.87 | 231.85 | 217.82 | 45.86 | 192.37 | 386.33 | 329.12 | 127.41 PHASE |
| 377 | 23.76 | 49.26 | 628 | 18.28 | 5.99 | 4.73 | 14.95 | 4.19 | 21.84 | 6.66 | 1.78 AMP |
| | | | | 311.58 | 284.75 | 235.43 | 45.41 | 266.52 | 12.49 | 356.73 | 116.58 PHASE |
| 378 | 24.85 | 68.62 | 628 | 18.87 | 8.58 | 18.19 | 21.51 | 5.48 | 5.64 | 2.24 | 3.23 AMP |
| | | | | 335.61 | 188.71 | 237.52 | 39.17 | 229.84 | 279.94 | 28.73 | 94.85 PHASE |
| 379 | 24.32 | 89.17 | 628 | 26.76 | 12.87 | 17.44 | 26.49 | 7.86 | 16.56 | 1.13 | 3.45 AMP |
| | | | | 343.82 | 178.81 | 239.88 | 27.76 | 178.78 | 235.28 | 355.83 | 78.33 PHASE |
| 388 | 24.34 | 186.94 | 619 | 37.66 | 14.73 | 24.51 | 38.82 | 14.17 | 18.24 | 3.58 | 4.18 AMP |
| | | | | 351.25 | 184.34 | 257.64 | 39.11 | 188.89 | 268.81 | 348.13 | 186.41 PHASE |

TABLE VII.- Continued

(f) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | | | |
|---------------------------|--------|---------|------------|-----------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------|--|
| | RUN NO | 14 | CHANNEL NO | | 9 | SHUNT VOLTS | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | | |
| 324 | 4.67 | 9.66 | 618 | 7.88 336.68 | 1.61 133.68 | .29 16.92 | 1.44 292.41 | 1.46 351.34 | .56 82.97 | .36 325.84 | .15 88.79 | AMP PHASE | |
| 325 | 3.84 | 18.89 | 618 | 7.31 342.47 | 1.48 139.31 | .31 15.16 | 1.44 289.26 | 1.45 347.46 | .63 91.21 | .49 294.78 | .24 83.39 | AMP PHASE | |
| 326 | 1.29 | 18.62 | 618 | 7.82 349.78 | 1.45 143.68 | .22 53.78 | 1.58 285.29 | 1.48 354.33 | .46 116.47 | .46 313.54 | .25 97.75 | AMP PHASE | |
| 327 | -5.58 | 18.98 | 618 | 8.58 349.58 | 1.18 127.87 | .25 44.38 | 1.52 271.89 | 1.54 331.37 | .36 56.32 | .48 384.68 | .39 52.96 | AMP PHASE | |
| 328 | -2.61 | 12.38 | 619 | 18.18 355.95 | 1.81 99.77 | .61 26.21 | 1.78 382.13 | 2.16 6.58 | 1.84 54.32 | .38 55.91 | .53 84.74 | AMP PHASE | |
| 329 | -5.87 | 14.41 | 618 | 11.96 357.26 | 1.61 58.78 | 1.82 37.38 | 1.38 311.53 | 2.28 17.88 | 1.57 63.17 | .96 128.83 | .41 125.67 | AMP PHASE | |
| 338 | 4.11 | 8.38 | 619 | 6.28 334.53 | 1.89 119.38 | .59 332.11 | 1.48 273.12 | 1.54 322.22 | .39 64.83 | .32 299.78 | .89 174.27 | AMP PHASE | |
| 331 | 2.52 | 8.75 | 619 | 6.51 342.31 | .82 129.14 | .37 341.83 | 1.13 274.25 | 1.38 335.99 | .44 91.82 | .58 291.28 | .18 148.48 | AMP PHASE | |
| 332 | 1.81 | 9.56 | 619 | 7.87 347.86 | .66 143.81 | .17 325.15 | 1.31 268.68 | 1.56 336.92 | .34 87.54 | .48 291.94 | .16 162.95 | AMP PHASE | |
| 334 | -7.73 | 18.48 | 619 | 7.78 354.72 | .88 153.37 | .87 237.84 | 1.39 275.81 | 1.68 342.88 | .26 75.64 | .44 284.21 | .85 149.69 | AMP PHASE | |
| 335 | -2.44 | 11.57 | 628 | 8.52 357.24 | .91 146.23 | .38 192.15 | 1.57 268.18 | 1.88 332.38 | .37 64.96 | .44 255.18 | .88 342.82 | AMP PHASE | |
| 336 | -3.26 | 12.12 | 619 | 8.94 359.35 | .98 145.55 | .49 185.59 | 1.67 268.46 | 1.96 337.66 | .42 65.65 | .41 255.86 | .85 286.56 | AMP PHASE | |
| 371 | 3.24 | 7.24 | 621 | 5.87 337.27 | .29 118.81 | .54 315.27 | 1.84 254.86 | 1.42 294.12 | .38 47.38 | .44 253.51 | .18 74.13 | AMP PHASE | |
| 372 | 1.78 | 8.28 | 628 | 6.46 344.91 | .26 176.21 | .35 314.52 | 1.19 254.61 | 1.55 298.54 | .16 34.61 | .41 275.52 | .19 188.47 | AMP PHASE | |
| 373 | .13 | 8.97 | 628 | 7.87 353.97 | .48 288.47 | .33 277.83 | 1.34 267.56 | 1.58 314.43 | .16 84.56 | .54 272.83 | .12 58.55 | AMP PHASE | |
| 374 | -1.51 | 18.83 | 619 | 7.88 198.64 | .65 249.24 | .54 274.17 | 1.64 338.38 | 1.74 182.96 | .29 267.14 | .57 267.14 | .15 388.44 | AMP PHASE | |
| 375 | -3.48 | 12.15 | 619 | .52 183.63 | .91 223.84 | .86 262.21 | 2.88 328.38 | 2.18 1.18 | .47 1.41 | .42 24.63 | .87 246.86 | AMP PHASE | |
| 376 | 2.71 | 5.88 | 628 | 1.79 339.91 | .91 293.49 | .88 389.95 | 2.88 272.71 | 2.18 328.27 | .47 49.63 | .42 284.86 | .87 68.51 | AMP PHASE | |
| 377 | 1.24 | 6.69 | 628 | 5.61 347.59 | .48 264.39 | .47 311.25 | .94 272.81 | 1.26 322.51 | .25 48.15 | .35 319.81 | .24 78.57 | AMP PHASE | |
| 378 | -3.36 | 7.79 | 628 | 6.36 352.56 | .58 248.86 | .48 274.79 | 1.11 258.39 | 1.34 389.18 | .25 7.23 | .31 255.47 | .19 356.68 | AMP PHASE | |
| 379 | -2.81 | 9.82 | 628 | 7.21 355.28 | .77 223.96 | .65 241.67 | 1.48 245.71 | 1.56 298.43 | .23 48.62 | .33 219.92 | .11 387.55 | AMP PHASE | |
| 388 | -3.71 | 11.89 | 619 | 8.12 3.81 | 1.84 213.38 | .99 227.26 | 1.75 268.28 | 1.79 323.46 | .43 88.68 | .39 238.81 | .16 321.34 | AMP PHASE | |

TABLE VII.- Continued

(f) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|------------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | -4.95 | 34.86 | 618 | 28.87 137.62 | 9.88 331.89 | 6.86 339.12 | 3.16 168.86 | 3.97 274.79 | 1.93 18.89 | 2.31 248.21 | 4.86 61.91 |
| 325 | -3.35 | 35.97 | 618 | 22.18 148.46 | 18.83 338.47 | 7.65 345.72 | 3.88 154.63 | 4.43 273.16 | 1.88 14.76 | 2.61 237.99 | 5.16 54.83 |
| 326 | -1.73 | 38.98 | 618 | 23.35 144.67 | 11.14 332.81 | 8.58 358.97 | 3.29 153.57 | 4.48 283.95 | 1.45 12.22 | 2.89 258.76 | 4.77 63.68 |
| 327 | -1.17 | 41.46 | 618 | 24.35 142.18 | 12.14 321.14 | 9.38 336.92 | 3.39 131.52 | 4.55 255.88 | 1.44 318.88 | 1.74 216.27 | 4.18 24.88 |
| 328 | 1.12 | 44.64 | 619 | 25.51 147.81 | 14.18 326.44 | 18.21 343.27 | 3.59 141.83 | 5.89 276.51 | 1.93 328.52 | 1.98 227.88 | 3.12 48.52 |
| 329 | 2.57 | 46.55 | 618 | 26.88 149.14 | 15.96 322.81 | 18.77 335.81 | 2.75 138.81 | 5.88 272.65 | 2.63 389.67 | 1.94 184.71 | 1.75 348.67 |
| 330 | -3.49 | 28.47 | 619 | 136.59 144.86 | 8.23 331.35 | 5.18 328.46 | 2.98 169.74 | 6.39 246.81 | 3.38 358.88 | 2.19 248.82 | 1.92 29.66 |
| 331 | -1.79 | 38.39 | 619 | 28.88 148.86 | 9.13 331.35 | 6.28 328.46 | 2.71 169.74 | 6.81 246.81 | 4.88 358.88 | 1.91 248.82 | 2.35 29.66 |
| 332 | -2.28 | 34.16 | 619 | 21.45 141.51 | 18.84 329.79 | 7.55 333.85 | 3.25 168.88 | 6.14 247.29 | 2.88 286.85 | 1.55 226.83 | 2.14 34.84 |
| 334 | 1.27 | 37.38 | 619 | 22.78 145.57 | 11.54 328.52 | 8.92 348.65 | 3.17 162.61 | 6.48 253.48 | 1.51 383.35 | 1.54 239.22 | 1.91 11.25 |
| 335 | 2.84 | 48.26 | 628 | 22.84 144.39 | 12.83 319.19 | 9.93 336.17 | 3.98 142.34 | 7.19 238.96 | 1.85 278.67 | 1.89 243.86 | 2.53 335.48 |
| 336 | 3.68 | 41.16 | 619 | 24.48 145.54 | 13.32 318.95 | 18.47 337.18 | 2.93 142.68 | 7.32 241.44 | 1.84 275.18 | 1.97 251.65 | 2.46 326.88 |
| 371 | -1.16 | 27.33 | 621 | 18.84 135.14 | 7.46 338.37 | 4.97 384.78 | 2.78 161.53 | 6.65 218.49 | 2.29 126.88 | 1.82 191.31 | 1.32 358.11 |
| 372 | 1.53 | 38.83 | 628 | 28.81 138.68 | 8.33 328.71 | 6.35 317.88 | 3.29 152.90 | 6.48 214.18 | 1.33 164.85 | 1.83 197.74 | 1.83 22.14 |
| 373 | 3.27 | 32.73 | 628 | 21.12 144.12 | 9.28 331.87 | 7.38 338.55 | 3.63 161.88 | 6.79 228.84 | 1.88 323.66 | 1.38 228.84 | 1.15 5.98 |
| 374 | 4.89 | 35.76 | 619 | 22.26 147.34 | 18.48 331.58 | 8.32 351.98 | 3.72 168.64 | 7.23 239.33 | 1.35 348.67 | 1.93 231.71 | 1.63 355.88 |
| 375 | 6.57 | 48.16 | 619 | 23.99 145.99 | 12.88 322.68 | 9.74 348.81 | 4.84 142.84 | 7.36 229.92 | 1.78 321.58 | 1.57 194.89 | 1.67 322.29 |
| 376 | 2.84 | 23.28 | 628 | 16.97 137.63 | 6.18 339.86 | 4.62 298.62 | 2.16 182.75 | 4.85 228.37 | 1.37 56.21 | 1.23 198.78 | 1.23 338.68 |
| 377 | 3.49 | 26.32 | 628 | 18.12 148.86 | 6.83 338.55 | 5.88 315.72 | 2.72 173.22 | 5.85 231.36 | 1.87 139.33 | 1.72 289.28 | 1.87 18.41 |
| 378 | 5.16 | 28.60 | 628 | 19.53 141.57 | 7.62 329.87 | 5.88 325.66 | 3.42 155.17 | 5.77 216.84 | 1.28 316.22 | 1.83 195.26 | 1.88 318.83 |
| 379 | 6.79 | 32.82 | 628 | 28.93 141.82 | 8.73 321.46 | 6.81 332.12 | 3.89 135.68 | 6.48 282.88 | 1.34 386.31 | 1.74 142.22 | 1.71 267.42 |
| 388 | 8.56 | 36.78 | 619 | 22.29 146.28 | 9.84 326.88 | 8.83 353.95 | 4.32 148.68 | 7.72 224.23 | 1.55 332.84 | 1.21 144.73 | 1.55 293.96 |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|----------------|----------------|-----------------|----------------|-----------------|-----------------|----------------|----------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 6.59 | 24.66 | 618 | 7.77 178.85 | 3.78 336.92 | 5.93 332.78 | 4.43 78.62 | 2.84 322.43 | 1.76 182.59 | 1.24 28.72 | 2.46 97.21 |
| 325 | 7.49 | 32.74 | 618 | 6.68 188.96 | 3.78 339.49 | 7.83 334.64 | 5.57 76.57 | 4.68 384.36 | 7.31 312.67 | 1.29 58.28 | 2.89 93.12 |
| 326 | 8.42 | 29.62 | 618 | 5.47 196.64 | 3.97 347.86 | 8.53 339.84 | 7.68 71.29 | 5.98 316.22 | 5.95 25.58 | 2.29 85.77 | 1.92 184.66 |
| 327 | 8.93 | 37.38 | 618 | 4.31 214.83 | 4.87 335.65 | 18.17 322.92 | 9.18 51.71 | 5.84 288.88 | 2.88 74.34 | 3.86 84.29 | 2.21 61.98 |
| 328 | 9.46 | 41.52 | 619 | 3.93 257.84 | 4.82 348.73 | 12.21 325.88 | 9.71 59.21 | 7.77 295.96 | 6.54 187.81 | 5.71 142.99 | 2.24 189.28 |
| 329 | 18.79 | 51.75 | 618 | 4.22 282.98 | 4.52 324.12 | 14.58 312.79 | 8.64 28.73 | 11.82 286.36 | 16.58 286.63 | 7.68 158.14 | 2.36 92.88 |
| 330 | 5.54 | 22.89 | 619 | 7.53 161.16 | 3.33 335.88 | 4.46 319.82 | 3.78 68.92 | 3.79 263.86 | 4.75 383.17 | 1.77 348.33 | 1.36 91.53 |
| 331 | 6.66 | 31.88 | 619 | 6.23 178.17 | 3.57 336.98 | 5.88 327.86 | 5.57 62.71 | 6.68 299.44 | 18.81 337.31 | 2.37 3.19 | 1.35 71.53 |
| 332 | 7.98 | 35.64 | 619 | 4.89 178.62 | 3.56 339.44 | 7.21 327.63 | 8.17 54.24 | 7.96 296.83 | 7.41 9.44 | 3.44 15.11 | 1.89 61.25 |
| 334 | 9.24 | 31.78 | 619 | 3.22 198.27 | 3.79 336.76 | 9.27 328.26 | 18.33 55.99 | 7.66 298.58 | 3.41 351.25 | 2.27 51.72 | .93 82.17 |
| 335 | 18.37 | 35.58 | 628 | 2.32 232.86 | 3.83 321.38 | 1.59 318.87 | 12.84 42.67 | 7.62 267.68 | 2.21 297.74 | 2.44 59.84 | .67 25.45 |
| 336 | 18.68 | 39.95 | 619 | 2.43 251.89 | 4.82 328.55 | 12.72 317.49 | 13.71 42.48 | 7.74 269.34 | 2.67 318.55 | 2.47 73.38 | .67 22.33 |
| 371 | 9.56 | 34.86 | 621 | 6.73 155.26 | 3.83 317.44 | 4.48 387.29 | 4.38 47.95 | 6.86 232.79 | 13.82 285.41 | 2.41 382.84 | 1.11 65.77 |
| 372 | 9.58 | 28.44 | 628 | 4.95 168.86 | 3.81 322.86 | 5.93 318.98 | 6.54 48.81 | 6.87 234.33 | 6.62 323.13 | 2.44 346.15 | 1.22 81.12 |
| 373 | 11.22 | 29.81 | 628 | 3.15 178.82 | 3.16 321.87 | 7.49 322.84 | 8.79 57.78 | 6.19 238.82 | 3.89 284.28 | 1.22 24.98 | 1.73 185.89 |
| 374 | 12.81 | 38.88 | 619 | 1.29 196.78 | 3.68 322.28 | 9.62 327.38 | 11.45 62.57 | 6.77 238.25 | 5.88 282.28 | .77 43.82 | 1.49 122.96 |
| 375 | 13.88 | 43.89 | 619 | 1.67 385.33 | 4.39 388.18 | 12.45 317.18 | 14.49 47.75 | 7.71 222.29 | 5.15 296.95 | 1.47 17.37 | 1.19 184.62 |
| 376 | 9.97 | 27.51 | 628 | 7.34 156.48 | 3.33 312.13 | 3.61 385.25 | 3.17 46.36 | 4.58 222.13 | 18.31 299.53 | 1.34 314.15 | .58 35.53 |
| 377 | 9.45 | 27.62 | 628 | 5.91 159.11 | 3.18 312.48 | 4.73 313.28 | 4.81 52.36 | 5.36 238.58 | 8.42 2.61 | 2.49 344.93 | 1.88 68.37 |
| 378 | 9.51 | 27.85 | 628 | 3.76 153.77 | 3.32 381.66 | 5.94 388.81 | 7.49 48.82 | 6.61 216.76 | 3.82 272.16 | .54 28.32 | .97 55.06 |
| 379 | 11.34 | 36.96 | 628 | 1.79 136.86 | 3.69 289.87 | 7.91 381.89 | 9.93 38.84 | 7.85 189.71 | 7.49 231.48 | .11 188.37 | .92 61.52 |
| 388 | 13.83 | 46.68 | 619 | 1.18 14.68 | 4.31 292.38 | 18.88 315.91 | 11.93 51.29 | 8.51 199.68 | 1.22 264.69 | 1.22 322.52 | 1.21 82.93 |

TABLE VII.- Continued

(f) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | 1.63 | 7.39 | 618 | 4.42 | 1.84 | .23 | .84 | .94 | .16 | .46 | .29 AMP |
| 325 | .29 | 7.58 | 618 | 323.83 | 122.58 | 169.98 | 319.37 | 358.13 | 127.86 | 67.37 | 218.56 PHASE |
| 326 | -1.12 | 7.74 | 618 | 331.98 | 132.28 | 187.57 | 318.41 | 358.23 | 136.17 | 71.23 | 214.84 PHASE |
| 327 | -2.43 | 8.38 | 618 | 4.95 | 1.88 | .44 | .77 | .85 | .16 | .26 | .23 AMP |
| 328 | -3.94 | 9.41 | 619 | 341.74 | 142.42 | 187.36 | 319.18 | 348.94 | 134.31 | 78.42 | 286.62 PHASE |
| 329 | -5.61 | 10.23 | 618 | 5.32 | 1.76 | .53 | .82 | .98 | .12 | .35 | .12 AMP |
| 330 | 1.49 | 6.36 | 619 | 344.86 | 139.78 | 168.89 | 388.91 | 316.82 | 51.26 | 16.85 | 152.39 PHASE |
| 331 | .88 | 6.35 | 619 | 6.12 | 1.57 | .32 | .97 | 1.24 | .53 | .58 | .87 AMP |
| 332 | -1.18 | 7.82 | 619 | 353.93 | 149.28 | 153.83 | 332.71 | 358.88 | 58.89 | 54.61 | 131.38 PHASE |
| 333 | -2.63 | 8.28 | 619 | 7.13 | 1.27 | .56 | .77 | 1.17 | .72 | .49 | .21 AMP |
| 334 | -4.83 | 9.25 | 628 | 357.83 | 147.62 | 96.99 | 358.18 | .16 | 61.72 | 45.29 | 315.67 PHASE |
| 335 | -4.69 | 9.56 | 619 | 3.84 | 1.38 | .86 | .85 | .96 | .88 | .36 | .88 AMP |
| 336 | .29 | 5.19 | 621 | 328.18 | 128.68 | 288.88 | 388.24 | 329.89 | 96.25 | 64.98 | 259.84 PHASE |
| 337 | -1.89 | 5.93 | 628 | 4.83 | 1.19 | .24 | .74 | .88 | .18 | .23 | .88 AMP |
| 338 | -2.45 | 6.79 | 628 | 331.73 | 132.69 | 172.78 | 315.33 | 341.52 | 144.84 | 83.62 | 48.88 PHASE |
| 339 | -3.83 | 8.88 | 619 | 4.42 | 1.17 | .43 | .82 | .91 | .15 | .15 | .88 AMP |
| 340 | -5.39 | 9.25 | 619 | 339.81 | 145.67 | 167.18 | 312.29 | 331.81 | 181.48 | 59.76 | 84.68 PHASE |
| 341 | .01 | 3.98 | 628 | 4.93 | 1.38 | .63 | .84 | 1.81 | .13 | .26 | .13 AMP |
| 342 | -2.74 | 5.78 | 628 | 349.53 | 155.88 | 167.68 | 315.27 | 333.83 | 85.48 | 67.81 | 58.86 PHASE |
| 343 | -4.16 | 7.83 | 628 | 5.47 | 1.53 | .89 | .81 | 1.17 | .28 | .18 | .88 AMP |
| 344 | -5.57 | 8.56 | 619 | 353.61 | 152.78 | 162.86 | 295.63 | 328.62 | 53.82 | 72.83 | 15.28 PHASE |
| 345 | | | | 5.76 | 1.61 | .96 | .81 | 1.21 | .36 | .24 | .21 AMP |
| 346 | | | | 356.41 | 154.67 | 162.65 | 293.41 | 324.62 | 53.86 | 73.18 | 288.98 PHASE |
| 347 | | | | 3.47 | .72 | .18 | .79 | .76 | .88 | .16 | .11 AMP |
| 348 | | | | 325.95 | 132.94 | 184.37 | 283.93 | 385.26 | 76.58 | 21.97 | 297.37 PHASE |
| 349 | | | | 3.86 | .77 | .38 | .83 | .79 | .88 | .12 | .86 AMP |
| 350 | | | | 337.57 | 152.84 | 163.73 | 288.82 | 388.22 | 13.74 | 357.74 | 388.22 PHASE |
| 351 | | | | 4.34 | .93 | .54 | .87 | .93 | .12 | .89 | .24 AMP |
| 352 | | | | 349.83 | 178.92 | 179.86 | 297.24 | 314.82 | 56.73 | 26.14 | 314.22 PHASE |
| 353 | | | | 4.91 | 1.22 | .83 | .97 | 1.89 | .26 | .18 | .15 AMP |
| 354 | | | | 357.45 | 178.37 | 188.46 | 293.23 | 327.49 | 69.83 | 145.81 | 323.89 PHASE |
| 355 | | | | 5.73 | 1.54 | 1.13 | 1.88 | 1.35 | .49 | .17 | .11 AMP |
| 356 | | | | .29 | 171.37 | 182.29 | 275.89 | 318.84 | 51.88 | 148.16 | 381.94 PHASE |
| 357 | | | | 2.98 | .31 | .15 | .69 | .58 | .18 | .14 | .21 AMP |
| 358 | | | | 328.34 | 164.84 | 165.28 | 298.71 | 328.84 | 28.55 | 341.33 | 27.82 PHASE |
| 359 | | | | 3.25 | .52 | .23 | .73 | .53 | .85 | .16 | .14 AMP |
| 360 | | | | 341.83 | 188.49 | 165.87 | 299.31 | 321.67 | 2.51 | 315.19 | 16.52 PHASE |
| 361 | | | | 3.86 | .77 | .46 | .76 | .72 | .11 | .89 | .14 AMP |
| 362 | | | | 348.99 | 194.38 | 171.94 | 287.84 | 318.54 | 6.98 | 389.62 | 313.58 PHASE |
| 363 | | | | 4.52 | 1.88 | .74 | .89 | .98 | .27 | .85 | .18 AMP |
| 364 | | | | 353.59 | 186.94 | 175.37 | 261.31 | 298.44 | 19.83 | 149.49 | 254.47 PHASE |
| 365 | | | | 5.23 | 1.43 | 1.88 | 1.87 | 1.16 | .48 | .25 | .18 AMP |
| 366 | | | | 2.48 | 188.58 | 185.39 | 267.79 | 322.82 | 58.86 | 163.87 | 271.98 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 14 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 324 | -4.69 | 18.68 | 618 | 5.64 | 1.84 | 1.23 | 1.94 | 2.88 | .66 | .93 | 1.18 AMP |
| 325 | -3.28 | 11.64 | 618 | 171.57 | 342.18 | 171.12 | 117.78 | 189.28 | 249.43 | 54.87 | 238.38 PHASE |
| 326 | -1.81 | 12.62 | 618 | 5.78 | .97 | 1.58 | 2.83 | 1.97 | .76 | 1.38 | 1.18 AMP |
| 327 | -.26 | 13.33 | 618 | 179.24 | 357.52 | 171.18 | 115.95 | 189.58 | 253.79 | 54.86 | 219.89 PHASE |
| 328 | 1.56 | 16.43 | 619 | 6.34 | .99 | 1.59 | 2.11 | .49 | 1.81 | 1.83 | 1.83 AMP |
| 329 | 3.88 | 28.47 | 618 | 187.69 | 9.82 | 188.17 | 118.73 | 196.36 | 276.48 | 66.15 | 226.86 PHASE |
| 330 | -3.84 | 9.33 | 619 | 7.34 | .72 | 1.84 | 2.12 | 2.39 | .47 | .58 | .93 AMP |
| 331 | -2.47 | 9.29 | 619 | 187.58 | 12.82 | 163.19 | 89.32 | 171.52 | 289.58 | 24.55 | 193.58 PHASE |
| 332 | -1.25 | 18.72 | 619 | 9.88 | .14 | 2.83 | 2.44 | 3.25 | 1.28 | .56 | .71 AMP |
| 333 | 1.38 | 9.33 | 619 | 193.84 | 53.59 | 167.62 | 118.86 | 195.77 | 238.51 | 328.83 | 236.46 PHASE |
| 334 | -2.74 | 5.78 | 628 | 11.63 | .89 | 3.46 | 2.29 | 3.43 | 1.79 | 1.99 | 1.38 AMP |
| 335 | -5.57 | 8.56 | 619 | 195.89 | 182.13 | 163.13 | 183.48 | 196.48 | 245.27 | 317.72 | 279.15 PHASE |
| 336 | | | | 3.54 | .59 | 2.88 | 1.51 | 2.89 | .54 | .97 | .24 AMP |
| 337 | | | | 166.54 | 48.64 | 149.65 | 93.82 | 163.71 | 285.37 | 61.51 | 197.62 PHASE |
| 338 | | | | 9.93 | .67 | 2.88 | 1.41 | 1.79 | .54 | .96 | .21 AMP |
| 339 | | | | 179.13 | 66.65 | 155.66 | 88.38 | 173.98 | 211.96 | 88.58 | 144.69 PHASE |
| 340 | | | | 4.39 | 1.84 | 2.89 | 1.78 | 2.19 | .24 | .69 | .32 AMP |
| 341 | | | | 188.41 | 73.68 | 153.45 | 81.27 | 175.65 | 285.77 | 77.42 | 115.29 PHASE |
| 342 | | | | 5.38 | 1.16 | 2.16 | 1.83 | 2.22 | .45 | .89 | .46 AMP |
| 343 | | | | 195.89 | 78.74 | 154.97 | 85.56 | 184.36 | 284.13 | 78.82 | 181.46 PHASE |
| 344 | | | | 6.57 | 1.26 | 2.17 | 2.26 | 2.41 | .48 | .88 | .41 AMP |
| 345 | | | | 199.49 | 62.26 | 135.76 | 73.11 | 172.19 | 181.71 | 57.25 | 77.18 PHASE |
| 346 | | | | 7.33 | 1.24 | 2.85 | 2.45 | 2.65 | .55 | .63 | .54 AMP |
| 347 | | | | 281.56 | 58.99 | 132.33 | 75.58 | 175.47 | 188.94 | 46.51 | 74.65 PHASE |
| 348 | | | | 2.42 | 1.36 | 2.47 | .96 | 2.19 | .42 | .92 | .86 AMP |
| 349 | | | | 177.52 | 75.85 | 135.78 | 66.26 | 135.97 | 174.57 | 29.15 | 318.57 PHASE |
| 350 | | | | 3.34 | 1.64 | 2.32 | 1.34 | 2.59 | .38 | .52 | .21 AMP |
| 351 | | | | 187.43 | 75.22 | 141.28 | 61.56 | 142.18 | 153.32 | 41.26 | 21.87 PHASE |
| 352 | | | | 4.33 | 1.98 | 2.31 | 1.64 | 2.67 | .88 | .77 | .13 AMP |
| 353 | | | | 199.91 | 82.74 | 145.15 | 72.98 | 159.84 | 176.73 | 52.15 | 17.74 PHASE |
| 354 | | | | 5.73 | 1.98 | 2.21 | 2.87 | 2.77 | .16 | .68 | .81 AMP |
| 355 | | | | 286.81 | 88.93 | 137.49 | 92.85 | 172.78 | 288.52 | 62.56 | 381.88 PHASE |
| 356 | | | | 7.34 | 1.86 | 2.32 | 2.86 | 3.38 | .37 | .52 | .25 AMP |
| 357 | | | | 285.39 | 74.89 | 113.88 | 85.52 | 168.68 | 199.68 | 7.73 | 128.81 PHASE |
| 358 | | | | 2.83 | 2.82 | 2.78 | .55 | 1.82 | .35 | .22 | .22 AMP |
| 359 | | | | 199.68 | 87.45 | 134.75 | 87.65 | 155.12 | 222.18 | 13.21 | 35.17 PHASE |
| 360 | | | | 2.89 | 2.17 | 2.45 | .82 | 2.17 | .34 | .18 | .19 AMP |
| 361 | | | | 283.52 | 84.88 | 148.32 | 75.57 | 156.62 | 281.79 | 33.66 | 337.38 PHASE |
| 362 | | | | 3.31 | 2.43 | 2.59 | 1.26 | 2.32 | .45 | .54 | .88 AMP |
| 363 | | | | 218.99 | 79.73 | 125.42 | 66.44 | 146.36 | 186.86 | 8.54 | 389.68 PHASE |
| 364 | | | | 4.99 | 2.46 | 2.48 | 1.91 | 2.55 | .15 | .67 | .15 AMP |
| 365 | | | | 288.81 | 72.31 | 184.71 | 78.42 | 139.88 | 177.82 | 328.45 | 286.83 PHASE |
| 366 | | | | 6.96 | 2.48 | 2.59 | 2.45 | 2.86 | .24 | .62 | .23 AMP |
| 367 | | | | 213.88 | 72.43 | 94.54 | 88.11 | 168.83 | 267.76 | 358.36 | 178.33 PHASE |

TABLE VII.- Continued

(g) $\mu = 0.40$; $M_T = 0.68$

| PT. | A1 | B1 | THETA | CL/SIGMA | CU/SIGMA | CW/SIGMA |
|-----|------|------|-------|----------|----------|----------|
| 385 | -1.6 | 5.1 | 0.0 | .03260 | .00161 | .00163 |
| 386 | -1.7 | 6.6 | 2.0 | .04266 | .00142 | .00187 |
| 387 | -2.0 | 7.9 | 4.1 | .05365 | .00125 | .00226 |
| 388 | -2.3 | 9.1 | 6.1 | .06380 | .00098 | .00277 |
| 389 | -2.5 | 10.3 | 8.1 | .07242 | .00061 | .00343 |
| 390 | -2.9 | 11.7 | 10.0 | .08110 | .00012 | .00449 |
| 391 | -1.2 | 5.4 | 2.1 | .02138 | .00001 | .00241 |
| 392 | -1.5 | 6.5 | 4.0 | .03287 | .00110 | .00293 |
| 393 | -1.9 | 7.7 | 6.0 | .04287 | .00214 | .00354 |
| 394 | -2.3 | 8.8 | 7.9 | .05195 | .00326 | .00415 |
| 395 | -2.5 | 10.2 | 10.0 | .06239 | .00454 | .00512 |
| 396 | -2.6 | 11.0 | 11.0 | .06738 | .00519 | .00556 |
| 397 | -2.8 | 11.3 | 12.0 | .07261 | .00573 | .00607 |
| 398 | -1.1 | 5.6 | 4.1 | .01109 | .00047 | .00231 |
| 399 | -1.3 | 6.5 | 6.1 | .02246 | .00148 | .00327 |
| 400 | -1.8 | 7.9 | 7.9 | .03179 | .00352 | .00404 |
| 401 | -1.9 | 8.9 | 10.0 | .04334 | .00546 | .00512 |
| 402 | -2.5 | 10.0 | 11.9 | .05336 | .00759 | .00618 |
| 403 | -2.7 | 10.6 | 13.0 | .05842 | .00874 | .00661 |

TABLE VII.- Continued

(g) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 47.22 | 24.49 | 649 | 6.84 | 6.23 | 3.43 | 2.69 | 8.29 | 1.79 | 4.84 | 3.28 AMP |
| | | | | 141.55 | 388.52 | 9.22 | 389.64 | 71.17 | 328.71 | 285.56 | 41.68 PHASE |
| 386 | 48.32 | 25.87 | 658 | 7.86 | 7.82 | 4.32 | 3.18 | 8.96 | 1.62 | 3.88 | 3.17 AMP |
| | | | | 141.28 | 311.29 | 13.89 | 314.67 | 75.84 | 336.23 | 281.45 | 52.87 PHASE |
| 387 | 49.68 | 25.71 | 658 | 8.86 | 8.83 | 5.19 | 3.43 | 9.39 | 1.38 | 3.44 | 3.89 AMP |
| | | | | 141.67 | 317.39 | 27.28 | 325.69 | 85.98 | 353.59 | 216.88 | 62.88 PHASE |
| 388 | 50.57 | 25.72 | 658 | 9.28 | 8.72 | 5.67 | 3.67 | 8.73 | 1.23 | 2.96 | 3.82 AMP |
| | | | | 134.98 | 318.75 | 9.76 | 384.19 | 65.18 | 338.88 | 189.49 | 28.57 PHASE |
| 389 | 51.51 | 25.33 | 658 | 9.82 | 9.41 | 6.12 | 4.33 | 9.86 | .98 | 2.11 | 2.59 AMP |
| | | | | 138.31 | 313.96 | 5.67 | 298.31 | 69.58 | 334.21 | 188.83 | 34.63 PHASE |
| 390 | 52.31 | 26.88 | 649 | 18.25 | 18.17 | 6.91 | 5.38 | 9.91 | .61 | 2.85 | 2.21 AMP |
| | | | | 123.79 | 316.11 | 354.12 | 288.16 | 73.54 | 17.19 | 148.78 | 32.42 PHASE |
| 391 | 47.68 | 21.83 | 658 | 6.22 | 5.43 | 2.79 | 1.87 | 8.28 | 2.24 | 2.81 | 1.53 AMP |
| | | | | 149.53 | 317.74 | 341.58 | 328.12 | 59.88 | 336.73 | 231.74 | 45.84 PHASE |
| 392 | 48.88 | 22.97 | 658 | 6.98 | 6.25 | 3.68 | 1.53 | 8.69 | 2.36 | 2.54 | 1.18 AMP |
| | | | | 147.41 | 318.31 | 354.84 | 327.34 | 68.84 | 336.65 | 225.99 | 44.74 PHASE |
| 393 | 50.82 | 23.31 | 658 | 7.49 | 7.89 | 4.37 | 2.22 | 8.95 | 1.91 | 2.53 | 1.27 AMP |
| | | | | 144.38 | 328.37 | 3.66 | 338.28 | 61.75 | 339.66 | 226.78 | 45.88 PHASE |
| 394 | 51.82 | 23.56 | 658 | 8.88 | 7.76 | 5.86 | 2.75 | 9.88 | 1.83 | 2.24 | 1.52 AMP |
| | | | | 138.24 | 313.83 | 355.62 | 312.15 | 47.59 | 326.33 | 287.87 | 16.72 PHASE |
| 395 | 52.24 | 24.69 | 658 | 8.85 | 8.48 | 5.88 | 3.55 | 9.35 | 1.71 | 2.88 | 1.24 AMP |
| | | | | 132.95 | 315.58 | 357.45 | 311.88 | 48.68 | 319.88 | 288.85 | 357.71 PHASE |
| 396 | 52.76 | 24.35 | 649 | 9.25 | 8.59 | 6.12 | 3.88 | 9.55 | 1.85 | 1.62 | 1.34 AMP |
| | | | | 129.96 | 315.45 | 355.82 | 387.13 | 49.53 | 321.48 | 212.63 | 344.71 PHASE |
| 397 | 53.25 | 24.17 | 651 | 9.57 | 8.83 | 6.32 | 4.86 | 9.25 | 1.79 | 1.22 | 1.21 AMP |
| | | | | 127.84 | 315.23 | 352.31 | 298.98 | 48.33 | 324.27 | 287.44 | 348.84 PHASE |
| 398 | 47.62 | 18.74 | 658 | 5.31 | 4.77 | 2.79 | .52 | 6.64 | 1.36 | 1.69 | .87 AMP |
| | | | | 156.11 | 317.41 | 329.24 | 34.62 | 58.42 | 349.49 | 246.28 | 49.99 PHASE |
| 399 | 48.86 | 19.75 | 658 | 6.21 | 5.68 | 3.24 | 1.25 | 8.81 | 1.71 | 1.71 | .96 AMP |
| | | | | 153.12 | 314.81 | 339.95 | 1.14 | 45.35 | 335.26 | 228.27 | 27.28 PHASE |
| 400 | 50.85 | 19.25 | 658 | 6.35 | 5.84 | 3.82 | 1.93 | 7.49 | 1.56 | 1.87 | 1.11 AMP |
| | | | | 144.81 | 318.55 | 348.81 | 338.61 | 28.21 | 318.99 | 288.88 | 358.52 PHASE |
| 401 | 51.29 | 28.63 | 649 | 7.15 | 6.89 | 4.48 | 2.79 | 8.22 | 1.32 | 1.61 | 1.78 AMP |
| | | | | 144.67 | 321.29 | .23 | 344.83 | 49.65 | 341.69 | 228.32 | 27.13 PHASE |
| 402 | 52.48 | 21.41 | 658 | 7.73 | 7.47 | 4.81 | 3.63 | 8.71 | 1.19 | 1.49 | 1.85 AMP |
| | | | | 135.11 | 328.72 | 359.86 | 334.65 | 46.23 | 321.74 | 289.94 | 359.22 PHASE |
| 403 | 53.15 | 21.11 | 658 | 8.25 | 7.68 | 5.86 | 4.13 | 8.93 | 1.84 | 1.32 | 1.16 AMP |
| | | | | 129.24 | 317.53 | 355.89 | 321.89 | 39.48 | 388.43 | 194.77 | 337.86 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 53.24 | 65.88 | 649 | 26.86 | 9.48 | 7.33 | 11.55 | 18.91 | 4.84 | 1.54 | 1.85 AMP |
| | | | | 263.56 | 116.52 | 251.12 | 42.36 | 321.93 | 31.85 | 2.71 | 78.77 PHASE |
| 386 | 51.48 | 64.85 | 658 | 31.91 | 11.75 | 18.84 | 12.47 | 12.99 | 2.17 | 1.39 | 2.18 AMP |
| | | | | 282.98 | 128.18 | 253.68 | 51.55 | 386.17 | 244.48 | 62.45 | 88.69 PHASE |
| 387 | 58.24 | 73.59 | 658 | 48.25 | 17.54 | 12.18 | 13.64 | 15.48 | 3.76 | 2.56 | 2.33 AMP |
| | | | | 381.45 | 131.88 | 264.94 | 49.44 | 311.78 | 327.86 | 182.94 | 124.48 PHASE |
| 388 | 48.68 | 86.72 | 658 | 48.84 | 21.97 | 14.65 | 15.57 | 17.88 | 4.37 | 3.26 | 2.93 AMP |
| | | | | 312.53 | 128.53 | 248.39 | 29.35 | 299.58 | 35.38 | 89.15 | 97.87 PHASE |
| 389 | 48.28 | 186.66 | 658 | 58.28 | 28.43 | 28.12 | 16.78 | 18.89 | 8.23 | 4.33 | 3.33 AMP |
| | | | | 326.78 | 134.46 | 246.72 | 25.16 | 384.62 | 183.78 | 185.56 | 93.98 PHASE |
| 390 | 48.44 | 128.26 | 649 | 69.82 | 33.69 | 25.94 | 16.79 | 18.83 | 12.91 | 5.28 | 4.17 AMP |
| | | | | 337.13 | 137.88 | 243.86 | 7.63 | 296.81 | 137.98 | 95.76 | 75.83 PHASE |
| 391 | 52.34 | 46.77 | 658 | 19.89 | 6.93 | 5.75 | 11.18 | 8.26 | 3.87 | 1.41 | .68 AMP |
| | | | | 258.94 | 133.81 | 245.12 | 53.18 | 326.52 | 322.92 | 351.96 | 55.66 PHASE |
| 392 | 52.35 | 54.28 | 658 | 22.41 | 8.33 | 8.98 | 11.28 | 18.35 | 5.84 | 1.29 | .63 AMP |
| | | | | 281.63 | 134.73 | 245.67 | 55.95 | 381.78 | 276.38 | 8.76 | 61.89 PHASE |
| 393 | 53.24 | 61.75 | 658 | 38.24 | 14.18 | 18.61 | 13.38 | 13.68 | 6.71 | 1.86 | .66 AMP |
| | | | | 381.12 | 137.93 | 242.67 | 43.72 | 299.33 | 387.72 | 25.92 | 184.44 PHASE |
| 394 | 53.18 | 73.39 | 658 | 38.18 | 17.93 | 14.66 | 16.93 | 14.14 | 4.86 | 2.39 | .82 AMP |
| | | | | 313.42 | 137.34 | 231.56 | 27.64 | 279.58 | 386.35 | 13.99 | 82.79 PHASE |
| 395 | 54.21 | 95.38 | 658 | 58.48 | 23.52 | 22.65 | 28.65 | 12.63 | 2.87 | 2.54 | 1.13 AMP |
| | | | | 326.49 | 141.72 | 234.83 | 38.16 | 279.94 | 338.88 | 28.73 | 94.34 PHASE |
| 396 | 53.58 | 183.54 | 649 | 57.28 | 26.11 | 27.12 | 28.63 | 12.99 | 1.66 | 3.81 | 1.13 AMP |
| | | | | 332.29 | 143.78 | 235.37 | 28.68 | 282.47 | 13.85 | 37.86 | 81.52 PHASE |
| 397 | 53.49 | 118.88 | 651 | 63.91 | 27.68 | 38.65 | 28.89 | 11.83 | 2.48 | 2.57 | 1.27 AMP |
| | | | | 337.46 | 144.71 | 234.68 | 23.38 | 291.21 | 68.24 | 32.68 | 58.79 PHASE |
| 398 | 58.63 | 43.88 | 658 | 16.87 | 4.74 | 3.99 | 9.68 | 5.78 | 4.81 | 1.84 | .46 AMP |
| | | | | 247.34 | 153.83 | 285.88 | 61.88 | 319.53 | 318.18 | 324.21 | 62.18 PHASE |
| 399 | 51.95 | 45.17 | 658 | 15.58 | 5.63 | 7.37 | 12.23 | 7.43 | 6.43 | 1.26 | .58 AMP |
| | | | | 272.49 | 156.85 | 228.58 | 55.21 | 268.26 | 275.29 | 327.21 | 65.33 PHASE |
| 400 | 53.48 | 47.82 | 658 | 21.88 | 18.85 | 9.47 | 12.91 | 18.25 | 6.71 | 1.65 | .66 AMP |
| | | | | 299.44 | 146.15 | 212.38 | 27.17 | 252.49 | 286.29 | 318.26 | 55.86 PHASE |
| 401 | 55.51 | 72.85 | 649 | 31.87 | 15.59 | 16.42 | 17.94 | 9.71 | 3.45 | 1.53 | .75 AMP |
| | | | | 328.23 | 156.58 | 229.89 | 45.14 | 264.15 | 329.11 | 4.85 | 93.41 PHASE |
| 402 | 57.36 | 93.84 | 658 | 43.71 | 19.57 | 25.15 | 22.48 | 11.43 | 2.94 | 1.82 | 1.86 AMP |
| | | | | 339.78 | 157.73 | 238.43 | 48.38 | 238.64 | 314.14 | 28.68 | 81.57 PHASE |
| 403 | 58.22 | 181.68 | 658 | 51.49 | 22.26 | 38.88 | 22.59 | 11.92 | 3.38 | 2.56 | 1.23 AMP |
| | | | | 342.98 | 156.65 | 227.26 | 31.38 | 224.76 | 325.22 | 21.79 | 76.18 PHASE |

TABLE VII.- Continued

(g) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 18.79 | 14.59 | 649 | 7.82 | 1.88 | 1.28 | 2.57 | 2.61 | .62 | 1.14 | .29 |
| 386 | 8.79 | 14.78 | 658 | 328.21 | 128.85 | 353.85 | 258.32 | 337.93 | 48.43 | 248.83 | 332.48 |
| 387 | 6.64 | 13.36 | 658 | 7.98 | 1.65 | 1.61 | 2.78 | 2.61 | .69 | 1.15 | .25 |
| 388 | 4.43 | 14.82 | 658 | 336.16 | 127.17 | 349.98 | 263.25 | 346.73 | 48.18 | 248.36 | 24.87 |
| 389 | 2.85 | 16.32 | 658 | 8.38 | 1.42 | 1.64 | 2.78 | 2.56 | .36 | 1.14 | .23 |
| 390 | -.73 | 28.77 | 649 | 346.63 | 135.36 | 351.48 | 267.86 | 352.95 | 77.54 | 264.23 | 95.12 |
| 391 | 18.87 | 18.77 | 658 | 9.43 | 1.25 | 1.86 | 2.56 | 2.61 | .35 | .81 | .35 |
| 392 | 8.26 | 18.74 | 658 | 358.82 | 114.89 | 348.45 | 248.85 | 334.15 | 19.92 | 243.45 | 56.88 |
| 393 | 6.36 | 18.42 | 658 | 11.15 | 1.28 | 2.29 | 2.92 | 3.51 | .85 | 1.18 | .58 |
| 394 | 4.55 | 18.86 | 658 | 357.81 | 94.12 | 349.28 | 254.17 | 346.34 | 38.68 | 186.68 | 75.88 |
| 395 | 2.47 | 12.36 | 658 | 13.88 | 1.63 | 3.38 | 3.85 | 5.83 | 2.88 | 1.29 | 1.15 |
| 396 | 1.38 | 13.13 | 649 | 2.58 | 52.64 | 355.64 | 257.67 | 358.66 | 58.18 | 91.85 | 188.73 |
| 397 | .19 | 14.87 | 651 | 5.96 | 1.12 | 2.17 | 2.31 | 2.89 | .32 | .91 | .22 |
| 398 | 9.54 | 9.57 | 658 | 321.58 | 185.73 | 331.16 | 258.83 | 323.55 | 35.28 | 261.98 | 232.44 |
| 399 | 7.64 | 9.29 | 658 | 6.12 | .66 | 2.41 | 2.35 | 2.16 | .54 | .86 | .22 |
| 400 | 5.69 | 8.76 | 658 | 331.98 | 189.51 | 338.34 | 256.58 | 331.72 | 38.13 | 268.86 | 221.48 |
| 401 | 3.81 | 9.49 | 649 | 6.48 | .26 | 2.56 | 2.33 | 2.17 | .31 | .94 | .48 |
| 402 | 1.76 | 18.66 | 658 | 341.81 | 181.15 | 328.34 | 256.49 | 332.34 | 38.34 | 272.94 | 211.68 |
| 403 | .65 | 11.73 | 658 | 7.88 | .89 | 2.57 | 2.51 | 2.27 | .26 | .97 | .28 |
| | | | | 347.43 | 188.48 | 315.88 | 241.18 | 318.74 | 338.72 | 259.41 | 192.83 |
| | | | | 7.96 | .28 | 2.56 | 2.94 | 2.47 | .29 | 1.18 | .16 |
| | | | | 357.16 | 128.27 | 389.37 | 244.47 | 327.62 | 356.85 | 268.15 | 282.91 |
| | | | | 8.76 | .32 | 2.58 | 3.26 | 2.69 | .43 | .97 | .28 |
| | | | | 1.38 | 136.85 | 386.51 | 244.22 | 329.53 | 6.12 | 263.85 | 191.92 |
| | | | | 9.87 | .62 | 2.61 | 3.44 | 2.98 | .62 | .98 | .27 |
| | | | | 5.88 | 136.87 | 388.88 | 241.79 | 333.48 | 26.61 | 267.84 | 184.98 |
| | | | | 4.83 | .21 | 2.41 | 1.71 | 1.77 | .14 | .73 | .26 |
| | | | | 314.12 | 35.87 | 326.99 | 247.48 | 325.18 | 32.47 | 267.15 | 187.73 |
| | | | | 4.89 | .31 | 2.63 | 1.86 | 1.96 | .24 | .78 | .33 |
| | | | | 325.21 | 381.44 | 319.82 | 239.94 | 315.88 | 11.45 | 255.42 | 152.14 |
| | | | | 5.48 | .62 | 2.44 | 1.79 | 1.98 | .14 | .68 | .28 |
| | | | | 335.12 | 298.54 | 318.14 | 238.13 | 299.95 | 336.11 | 239.11 | 132.58 |
| | | | | 6.13 | .88 | 2.68 | 2.18 | 2.85 | .28 | .81 | .19 |
| | | | | 349.67 | 286.73 | 316.65 | 249.86 | 324.22 | 327.13 | 265.49 | 162.84 |
| | | | | 7.19 | .75 | 2.72 | 2.58 | 2.22 | .25 | .91 | .13 |
| | | | | 357.94 | 273.97 | 382.35 | 247.42 | 325.54 | 338.95 | 252.85 | 116.82 |
| | | | | 7.95 | .67 | 2.72 | 2.98 | 2.43 | .19 | .88 | .12 |
| | | | | .15 | 256.83 | 298.84 | 243.56 | 322.95 | 345.98 | 244.69 | 118.88 |

TABLE VII.- Continued

(g) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------------|
| RUN NO | | 15 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 32.38 | 22.98 | 649 | 18.87 | 7.89 | 4.56 | 2.74 | 4.14 | .38 | .37 | 1.16 AMP |
| 386 | 33.26 | 23.72 | 658 | 135.12 | 312.78 | 8.13 | 386.95 | 78.28 | 358.68 | 295.55 | 289.47 PHASE |
| | | | | 12.46 | 8.22 | 5.51 | 3.82 | 4.42 | .38 | .38 | 1.83 AMP |
| 387 | 33.96 | 26.14 | 658 | 136.23 | 313.85 | 13.87 | 311.94 | 88.38 | 19.81 | 298.98 | 222.39 PHASE |
| | | | | 13.84 | 9.81 | 6.49 | 3.27 | 4.63 | .36 | .48 | 1.88 AMP |
| 388 | 34.74 | 27.19 | 658 | 138.36 | 316.82 | 24.95 | 322.83 | 89.82 | 32.98 | 326.37 | 238.87 PHASE |
| | | | | 14.98 | 18.89 | 7.18 | 3.38 | 4.16 | .31 | .47 | 1.83 AMP |
| 389 | 35.45 | 29.86 | 658 | 133.58 | 308.68 | 8.78 | 381.89 | 68.96 | 28.32 | 291.74 | 199.87 PHASE |
| | | | | 15.85 | 12.33 | 7.86 | 3.65 | 4.34 | .36 | .61 | .96 AMP |
| 390 | 36.11 | 32.32 | 649 | 132.43 | 308.92 | 6.98 | 297.79 | 73.85 | 59.38 | 277.21 | 289.15 PHASE |
| | | | | 16.47 | 13.93 | 8.76 | 4.31 | 4.72 | .45 | .98 | 1.83 AMP |
| 391 | 33.34 | 18.68 | 658 | 138.32 | 308.13 | 358.37 | 281.25 | 77.28 | 131.28 | 254.64 | 218.19 PHASE |
| | | | | 8.86 | 6.87 | 2.71 | 1.42 | 4.59 | .67 | .31 | .69 AMP |
| 392 | 34.42 | 28.96 | 658 | 135.16 | 327.69 | 2.82 | 386.57 | 62.76 | 344.32 | 282.77 | 213.84 PHASE |
| | | | | 18.24 | 7.26 | 4.85 | 1.74 | 4.91 | .64 | .28 | .51 AMP |
| 393 | 35.48 | 22.88 | 658 | 135.59 | 323.78 | 9.46 | 314.78 | 61.97 | 332.88 | 286.73 | 281.78 PHASE |
| | | | | 11.58 | 8.43 | 5.82 | 2.22 | 4.91 | .65 | .32 | .53 AMP |
| 394 | 36.22 | 23.83 | 658 | 136.83 | 322.39 | 16.39 | 321.46 | 64.55 | 331.18 | 383.23 | 281.93 PHASE |
| | | | | 12.78 | 9.33 | 8.86 | 2.57 | 4.98 | .56 | .34 | .63 AMP |
| 395 | 37.11 | 26.83 | 658 | 132.55 | 313.96 | 8.22 | 387.26 | 49.83 | 324.87 | 284.86 | 167.42 PHASE |
| | | | | 14.38 | 18.57 | 7.46 | 2.99 | 5.18 | .36 | .35 | .58 AMP |
| 396 | 37.48 | 27.88 | 649 | 131.28 | 312.64 | 9.69 | 389.33 | 48.76 | 319.35 | 273.88 | 141.71 PHASE |
| | | | | 15.85 | 11.89 | 8.16 | 3.81 | 5.25 | .36 | .44 | .69 AMP |
| 397 | 37.78 | 28.81 | 651 | 138.58 | 318.97 | 8.79 | 386.67 | 49.88 | 314.85 | 244.71 | 143.18 PHASE |
| | | | | 15.72 | 11.69 | 8.59 | 3.13 | 5.82 | .31 | .42 | .54 AMP |
| 398 | 34.18 | 13.61 | 658 | 129.77 | 389.63 | 6.28 | 381.53 | 47.36 | 325.35 | 245.25 | 141.45 PHASE |
| | | | | 6.94 | 5.81 | 2.18 | .73 | 3.87 | .48 | .21 | .41 AMP |
| 399 | 35.89 | 15.72 | 658 | 134.58 | 331.37 | 346.57 | 329.88 | 59.58 | 334.54 | 296.73 | 216.99 PHASE |
| | | | | 8.53 | 6.29 | 3.88 | 1.28 | 4.62 | .48 | .21 | .33 AMP |
| 400 | 36.18 | 16.18 | 658 | 135.84 | 324.46 | 358.97 | 331.33 | 45.88 | 317.11 | 291.68 | 172.16 PHASE |
| | | | | 9.42 | 6.84 | 4.23 | 1.79 | 4.28 | .41 | .25 | .44 AMP |
| 401 | 37.18 | 19.38 | 649 | 131.86 | 316.58 | 356.91 | 318.89 | 28.62 | 293.78 | 281.58 | 158.93 PHASE |
| | | | | 11.14 | 8.41 | 5.44 | 2.48 | 4.64 | .24 | .29 | .36 AMP |
| 402 | 38.88 | 21.83 | 658 | 136.88 | 323.27 | 17.43 | 337.94 | 58.81 | 389.99 | 298.51 | 178.28 PHASE |
| | | | | 12.64 | 9.43 | 6.68 | 2.84 | 4.93 | .18 | .39 | .38 AMP |
| 403 | 38.54 | 23.41 | 658 | 133.75 | 328.84 | 18.48 | 333.77 | 44.74 | 277.17 | 279.23 | 157.22 PHASE |
| | | | | 13.48 | 9.95 | 7.42 | 3.83 | 5.89 | .11 | .52 | .51 AMP |
| | | | | 131.57 | 315.93 | 14.71 | 326.81 | 36.91 | 227.79 | 255.67 | 137.85 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO | | 15 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 26.52 | 63.86 | 649 | 22.48 | 6.81 | 5.52 | 15.98 | 13.31 | 6.56 | 3.35 | 2.59 AMP |
| 386 | 24.86 | 64.84 | 658 | 269.92 | 128.14 | 263.12 | 37.23 | 326.16 | 32.49 | 6.45 | 136.24 PHASE |
| | | | | 28.85 | 9.28 | 8.26 | 18.38 | 15.13 | 4.38 | 3.88 | 3.87 AMP |
| 387 | 23.17 | 75.82 | 658 | 286.84 | 122.89 | 269.38 | 43.43 | 388.48 | 227.39 | 33.17 | 122.83 PHASE |
| | | | | 35.55 | 13.89 | 18.55 | 21.87 | 17.99 | 6.85 | 4.89 | 4.75 AMP |
| 388 | 28.91 | 93.82 | 658 | 382.35 | 135.46 | 287.98 | 47.86 | 313.29 | 328.37 | 81.34 | 143.57 PHASE |
| | | | | 42.66 | 17.69 | 13.37 | 23.29 | 21.96 | 6.44 | 4.88 | 4.98 AMP |
| 389 | 19.35 | 99.39 | 658 | 318.84 | 131.49 | 274.97 | 38.18 | 299.43 | 28.95 | 75.27 | 185.13 PHASE |
| | | | | 58.88 | 23.58 | 17.74 | 24.68 | 23.27 | 11.48 | 5.85 | 5.31 AMP |
| 390 | 18.18 | 118.81 | 649 | 323.35 | 139.29 | 273.82 | 25.78 | 384.97 | 186.66 | 188.81 | 185.65 PHASE |
| | | | | 58.56 | 29.87 | 23.14 | 24.69 | 25.41 | 28.89 | 7.42 | 4.83 AMP |
| 391 | 25.82 | 44.99 | 658 | 332.88 | 144.75 | 267.85 | 7.95 | 298.12 | 146.31 | 187.91 | 87.84 PHASE |
| | | | | 15.85 | 5.88 | 3.47 | 14.47 | 18.88 | 6.15 | 3.91 | 1.16 AMP |
| 392 | 24.79 | 51.74 | 658 | 267.41 | 158.84 | 249.48 | 47.55 | 331.68 | 324.63 | 349.92 | 184.73 PHASE |
| | | | | 19.32 | 6.39 | 6.25 | 15.68 | 12.61 | 8.78 | 4.21 | 2.73 AMP |
| 393 | 25.14 | 64.11 | 658 | 286.86 | 144.22 | 256.88 | 46.51 | 386.85 | 278.62 | 1.33 | 95.11 PHASE |
| | | | | 26.27 | 18.69 | 7.68 | 19.38 | 16.34 | 12.84 | 4.56 | 3.18 AMP |
| 394 | 24.67 | 72.67 | 658 | 381.78 | 144.91 | 258.89 | 41.83 | 381.71 | 384.14 | 13.49 | 184.88 PHASE |
| | | | | 33.87 | 13.83 | 18.78 | 24.13 | 16.98 | 7.56 | 4.91 | 3.33 AMP |
| 395 | 24.88 | 93.58 | 658 | 318.61 | 142.71 | 251.76 | 25.87 | 281.58 | 383.36 | 357.75 | 82.58 PHASE |
| | | | | 43.12 | 18.53 | 16.95 | 28.54 | 14.97 | 3.72 | 3.47 | 4.75 AMP |
| 396 | 22.65 | 94.85 | 649 | 321.95 | 147.72 | 256.93 | 29.32 | 284.73 | 324.12 | 17.78 | 83.27 PHASE |
| | | | | 48.47 | 28.89 | 28.51 | 29.51 | 15.64 | 2.24 | 3.33 | 4.73 AMP |
| 397 | 21.56 | 97.91 | 651 | 327.23 | 158.29 | 258.56 | 28.14 | 289.76 | 352.12 | 37.15 | 84.21 PHASE |
| | | | | 53.52 | 22.56 | 23.39 | 29.93 | 14.97 | 2.65 | 2.38 | 4.56 AMP |
| 398 | 23.31 | 43.96 | 658 | 332.28 | 152.41 | 257.53 | 23.26 | 388.93 | 71.86 | 32.52 | 75.26 PHASE |
| | | | | 11.52 | 3.87 | 2.49 | 12.26 | 7.81 | 7.62 | 3.88 | 1.82 AMP |
| 399 | 24.17 | 43.81 | 658 | 255.71 | 186.55 | 181.89 | 55.32 | 326.28 | 388.16 | 332.73 | 97.22 PHASE |
| | | | | 12.92 | 5.81 | 4.39 | 15.98 | 8.58 | 11.18 | 4.16 | 2.87 AMP |
| 400 | 24.62 | 47.86 | 658 | 279.45 | 183.81 | 233.11 | 48.44 | 274.46 | 271.84 | 331.93 | 81.72 PHASE |
| | | | | 18.38 | 7.93 | 5.97 | 17.94 | 11.84 | 12.12 | 4.66 | 2.53 AMP |
| 401 | 25.83 | 66.14 | 649 | 388.78 | 161.68 | 224.88 | 25.87 | 257.32 | 282.69 | 316.38 | 66.51 PHASE |
| | | | | 26.88 | 12.14 | 11.81 | 24.26 | 18.91 | 5.84 | 3.33 | 3.18 AMP |
| 402 | 26.42 | 85.76 | 658 | 323.98 | 167.89 | 243.48 | 43.24 | 268.12 | 324.29 | 358.38 | 98.63 PHASE |
| | | | | 35.75 | 15.51 | 17.41 | 38.42 | 11.75 | 4.81 | 2.16 | 4.88 AMP |
| 403 | 26.66 | 96.88 | 658 | 332.96 | 164.92 | 244.79 | 38.53 | 238.83 | 383.29 | 353.42 | 98.16 PHASE |
| | | | | 41.75 | 18.26 | 21.82 | 31.21 | 11.58 | 4.88 | 2.18 | 3.54 AMP |
| | | | | 335.32 | 162.72 | 242.83 | 38.43 | 222.55 | 312.84 | 8.18 | 75.84 PHASE |

TABLE VII.- Continued

(g) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 15 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 9.27 | 13.69 | 649 | 8.68 | 2.48 | .65 | 2.24 | 2.32 | .51 | .71 | .15 |
| | | | | 322.67 | 185.58 | 327.28 | 224.88 | 292.73 | 4.94 | 213.72 | 279.98 |
| 386 | 7.27 | 14.14 | 658 | 9.87 | 2.29 | .81 | 2.45 | 2.35 | .58 | .69 | .18 |
| | | | | 329.76 | 188.82 | 321.29 | 229.43 | 381.88 | 8.58 | 281.73 | 334.83 |
| 387 | 5.13 | 13.81 | 658 | 9.63 | 2.23 | .74 | 2.48 | 2.31 | .37 | .72 | .16 |
| | | | | 338.76 | 111.77 | 312.98 | 233.84 | 387.51 | 48.37 | 226.23 | 39.22 |
| 388 | 2.99 | 14.58 | 658 | 18.78 | 2.18 | .74 | 2.24 | 2.26 | .28 | .52 | .26 |
| | | | | 341.18 | 94.18 | 328.66 | 217.49 | 289.35 | 353.82 | 213.57 | 356.36 |
| 389 | .71 | 16.17 | 658 | 12.46 | 2.28 | .91 | 2.43 | 2.86 | .78 | .89 | .48 |
| | | | | 346.69 | 82.11 | 321.47 | 225.74 | 382.55 | 355.68 | 322.86 | 11.95 |
| 398 | -1.88 | 19.89 | 649 | 15.83 | 2.78 | 1.56 | 2.33 | 3.94 | 1.71 | 1.81 | .69 |
| | | | | 358.18 | 58.28 | 335.82 | 235.43 | 316.49 | 1.72 | 35.74 | 39.63 |
| 391 | 8.34 | 18.92 | 658 | 7.22 | 1.75 | 1.31 | 2.14 | 1.98 | .24 | .57 | .15 |
| | | | | 328.76 | 92.89 | 383.12 | 228.63 | 277.52 | 3.96 | 224.71 | 169.29 |
| 392 | 6.51 | 11.15 | 658 | 7.68 | 1.44 | 1.44 | 2.18 | 1.95 | .39 | .54 | .18 |
| | | | | 328.96 | 94.81 | 388.39 | 225.24 | 285.41 | 1.62 | 222.95 | 159.17 |
| 393 | 4.56 | 11.39 | 658 | 8.87 | 1.21 | 1.54 | 2.18 | 1.99 | .28 | .66 | .24 |
| | | | | 336.43 | 95.68 | 294.15 | 225.83 | 286.17 | 17.84 | 234.29 | 153.61 |
| 394 | 2.82 | 11.87 | 658 | 8.75 | 1.17 | 1.58 | 2.32 | 2.18 | .14 | .71 | .15 |
| | | | | 339.69 | 91.82 | 275.51 | 218.86 | 272.46 | 348.77 | 228.35 | 148.98 |
| 395 | .81 | 12.77 | 658 | 9.73 | 1.37 | 1.53 | 2.66 | 2.22 | .21 | .77 | .87 |
| | | | | 346.97 | 94.64 | 268.98 | 214.42 | 281.87 | 359.79 | 216.15 | 199.87 |
| 396 | -.22 | 13.59 | 649 | 18.46 | 1.58 | 1.52 | 2.88 | 2.37 | .38 | .68 | .89 |
| | | | | 358.88 | 96.99 | 253.41 | 214.84 | 283.31 | 349.34 | 219.71 | 175.17 |
| 397 | -1.33 | 14.53 | 651 | 11.42 | 1.82 | 1.51 | 2.97 | 2.48 | .47 | .56 | .17 |
| | | | | 352.64 | 96.88 | 253.83 | 214.27 | 287.77 | 349.44 | 224.94 | 162.72 |
| 398 | 7.74 | 8.91 | 658 | 6.23 | .89 | 1.41 | 1.66 | 1.65 | .15 | .45 | .16 |
| | | | | 319.28 | 73.85 | 295.88 | 228.87 | 279.44 | 354.61 | 227.88 | 127.93 |
| 399 | 5.79 | 8.92 | 658 | 6.57 | .61 | 1.57 | 1.81 | 1.88 | .28 | .52 | .21 |
| | | | | 326.73 | 74.74 | 286.96 | 212.86 | 268.46 | 338.88 | 217.88 | 92.21 |
| 488 | 3.92 | 8.43 | 658 | 7.18 | .31 | 1.44 | 1.69 | 1.69 | .11 | .68 | .18 |
| | | | | 332.88 | 62.27 | 275.22 | 281.88 | 253.54 | 338.16 | 282.64 | 78.59 |
| 481 | 2.82 | 9.46 | 649 | 7.99 | .27 | 1.67 | 2.88 | 1.88 | .13 | .62 | .89 |
| | | | | 343.41 | 185.51 | 276.17 | 219.57 | 278.16 | 389.78 | 225.74 | 187.28 |
| 482 | .88 | 11.39 | 658 | 9.83 | .46 | 1.85 | 2.46 | 2.83 | .12 | .72 | .85 |
| | | | | 348.64 | 129.12 | 258.77 | 216.85 | 279.79 | 335.87 | 218.98 | 22.22 |
| 483 | -.99 | 12.54 | 658 | 9.72 | .64 | 1.98 | 2.78 | 2.22 | .15 | .67 | .86 |
| | | | | 349.92 | 129.65 | 244.89 | 212.64 | 276.73 | 354.41 | 284.14 | 7.53 |

TABLE VII.- Continued

(g) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 28.18 | 28.77 | 649 | 13.99 | 8.66 | 5.39 | 1.19 | 2.88 | 1.56 | 3.48 | 3.26 AMP |
| | | | | 124.87 | 312.58 | 3.51 | 348.98 | 241.85 | 153.38 | 22.23 | 214.91 PHASE |
| 386 | 28.88 | 31.23 | 658 | 16.81 | 18.11 | 6.42 | 1.48 | 2.95 | 1.36 | 3.33 | 3.19 AMP |
| | | | | 127.85 | 312.63 | 8.77 | 339.13 | 248.81 | 151.88 | 17.46 | 226.83 PHASE |
| 387 | 21.39 | 33.93 | 658 | 18.81 | 12.88 | 7.49 | 1.71 | 2.96 | 1.86 | 2.96 | 3.87 AMP |
| | | | | 131.16 | 316.68 | 22.54 | 347.81 | 256.48 | 163.79 | 33.61 | 238.26 PHASE |
| 388 | 21.82 | 35.87 | 658 | 19.48 | 13.71 | 8.32 | 1.87 | 3.83 | .88 | 2.52 | 2.98 AMP |
| | | | | 128.23 | 387.98 | 4.88 | 324.43 | 234.28 | 139.87 | 6.87 | 283.67 PHASE |
| 389 | 22.29 | 37.82 | 658 | 28.59 | 15.67 | 9.45 | 1.94 | 3.28 | .61 | 1.78 | 2.47 AMP |
| | | | | 128.35 | 387.98 | 4.88 | 321.77 | 237.88 | 138.88 | 351.23 | 289.99 PHASE |
| 390 | 22.64 | 39.63 | 649 | 21.22 | 17.94 | 18.78 | 2.22 | 3.86 | .42 | 1.97 | 2.18 AMP |
| | | | | 127.34 | 386.95 | 356.79 | 387.88 | 236.94 | 173.68 | 386.88 | 288.45 PHASE |
| 391 | 21.37 | 21.39 | 658 | 11.58 | 7.85 | 3.28 | 1.84 | 2.89 | 1.38 | 2.41 | 1.22 AMP |
| | | | | 122.92 | 328.61 | 2.33 | 334.56 | 239.23 | 134.76 | 43.17 | 218.17 PHASE |
| 392 | 22.86 | 23.89 | 658 | 13.23 | 9.36 | 4.71 | 1.33 | 2.28 | 1.44 | 2.24 | .98 AMP |
| | | | | 125.67 | 322.69 | 8.84 | 329.44 | 237.78 | 138.17 | 37.14 | 212.55 PHASE |
| 393 | 22.72 | 26.86 | 658 | 14.95 | 18.92 | 5.98 | 1.54 | 2.26 | 1.15 | 2.89 | 1.86 AMP |
| | | | | 127.38 | 321.19 | 15.88 | 332.34 | 236.44 | 137.45 | 38.83 | 228.66 PHASE |
| 394 | 23.36 | 29.44 | 658 | 16.68 | 12.28 | 7.31 | 1.78 | 2.33 | .88 | 1.83 | 1.29 AMP |
| | | | | 128.48 | 312.84 | 8.81 | 319.28 | 228.17 | 121.27 | 18.75 | 191.23 PHASE |
| 395 | 24.17 | 32.67 | 658 | 18.82 | 13.82 | 8.93 | 1.83 | 2.56 | 1.83 | 1.56 | 1.17 AMP |
| | | | | 125.69 | 318.97 | 12.34 | 319.38 | 218.51 | 114.32 | 25.29 | 167.21 PHASE |
| 396 | 24.48 | 35.88 | 649 | 19.79 | 14.57 | 9.95 | 1.86 | 2.67 | 1.18 | 1.88 | 1.27 AMP |
| | | | | 125.67 | 389.28 | 11.48 | 319.82 | 217.93 | 116.83 | 31.55 | 155.13 PHASE |
| 397 | 24.71 | 36.27 | 651 | 28.71 | 15.42 | 18.54 | 1.83 | 2.78 | 1.87 | .73 | 1.22 AMP |
| | | | | 125.33 | 388.84 | 9.67 | 328.41 | 216.14 | 116.52 | 31.55 | 148.57 PHASE |
| 398 | 22.96 | 16.49 | 658 | 8.97 | 6.55 | 2.44 | 1.88 | 1.38 | .74 | 1.48 | .68 AMP |
| | | | | 121.33 | 332.87 | 347.28 | 313.82 | 247.83 | 156.98 | 61.18 | 224.48 PHASE |
| 399 | 23.57 | 18.93 | 658 | 18.94 | 8.18 | 3.57 | 1.17 | 1.59 | .87 | 1.58 | .74 AMP |
| | | | | 123.67 | 323.57 | 358.93 | 387.39 | 233.85 | 141.96 | 39.43 | 288.45 PHASE |
| 400 | 24.51 | 28.69 | 658 | 12.37 | 8.68 | 5.28 | 1.22 | 1.58 | .88 | 1.68 | .95 AMP |
| | | | | 121.98 | 313.99 | 356.39 | 298.43 | 215.15 | 125.66 | 11.96 | 171.99 PHASE |
| 401 | 25.85 | 24.78 | 649 | 14.59 | 10.66 | 6.71 | 1.22 | 1.78 | .71 | 1.28 | .73 AMP |
| | | | | 128.16 | 328.39 | 17.42 | 314.42 | 234.88 | 144.83 | 41.59 | 199.48 PHASE |
| 402 | 25.78 | 28.57 | 658 | 16.58 | 12.81 | 8.44 | 1.22 | 1.95 | .72 | 1.21 | 1.86 AMP |
| | | | | 127.58 | 316.48 | 28.84 | 313.44 | 231.23 | 129.99 | 23.21 | 173.18 PHASE |
| 403 | 26.13 | 38.32 | 658 | 17.75 | 12.82 | 9.61 | 1.16 | 2.81 | .65 | 1.86 | 1.16 AMP |
| | | | | 126.26 | 311.53 | 16.36 | 311.28 | 223.28 | 119.84 | 8.62 | 151.78 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 27.73 | 63.87 | 649 | 21.73 | 5.57 | 4.44 | 18.84 | 15.46 | 7.68 | 5.18 | 3.52 AMP |
| | | | | 277.92 | 135.83 | 276.64 | 38.58 | 325.22 | 37.15 | 8.51 | 151.97 PHASE |
| 386 | 26.82 | 69.29 | 658 | 27.85 | 7.26 | 7.44 | 22.17 | 17.68 | 6.84 | 4.92 | 3.52 AMP |
| | | | | 298.88 | 136.76 | 284.69 | 43.28 | 388.97 | 229.32 | 29.64 | 139.88 PHASE |
| 387 | 24.88 | 76.53 | 658 | 35.71 | 11.21 | 9.98 | 26.17 | 28.21 | 9.97 | 5.86 | 6.89 AMP |
| | | | | 383.54 | 144.58 | 386.87 | 47.56 | 313.81 | 316.19 | 76.17 | 156.49 PHASE |
| 388 | 21.34 | 97.72 | 658 | 42.64 | 14.44 | 13.13 | 28.85 | 24.48 | 7.76 | 5.23 | 5.86 AMP |
| | | | | 389.23 | 136.55 | 292.48 | 38.48 | 298.41 | 7.19 | 71.34 | 115.48 PHASE |
| 389 | 19.65 | 184.93 | 658 | 49.96 | 19.98 | 17.78 | 31.88 | 26.85 | 11.78 | 7.11 | 6.32 AMP |
| | | | | 319.61 | 143.22 | 288.85 | 25.73 | 383.24 | 118.23 | 113.58 | 114.84 PHASE |
| 390 | 18.76 | 114.84 | 649 | 55.54 | 26.15 | 24.21 | 31.89 | 29.21 | 23.12 | 8.75 | 5.13 AMP |
| | | | | 328.85 | 147.78 | 281.17 | 8.61 | 295.12 | 155.21 | 122.57 | 188.99 PHASE |
| 391 | 25.59 | 49.63 | 658 | 14.44 | 4.82 | 2.29 | 17.11 | 12.58 | 7.24 | 5.78 | 2.83 AMP |
| | | | | 279.89 | 167.91 | 258.44 | 47.61 | 329.16 | 323.81 | 354.81 | 115.46 PHASE |
| 392 | 25.25 | 56.68 | 658 | 19.48 | 5.99 | 4.83 | 18.94 | 14.84 | 11.68 | 6.26 | 4.28 AMP |
| | | | | 293.88 | 168.41 | 271.44 | 46.15 | 385.35 | 268.23 | 4.64 | 184.22 PHASE |
| 393 | 25.19 | 67.98 | 658 | 26.39 | 9.37 | 6.17 | 23.62 | 18.67 | 15.87 | 6.64 | 4.81 AMP |
| | | | | 384.22 | 156.71 | 288.35 | 41.99 | 388.64 | 383.16 | 16.89 | 115.88 PHASE |
| 394 | 24.46 | 77.97 | 658 | 32.98 | 11.96 | 9.24 | 29.38 | 19.23 | 18.28 | 6.92 | 5.82 AMP |
| | | | | 389.94 | 152.43 | 273.91 | 28.88 | 279.52 | 388.57 | .64 | 92.71 PHASE |
| 395 | 23.64 | 93.52 | 658 | 42.22 | 16.82 | 15.33 | 35.88 | 16.82 | 5.35 | 4.76 | 6.83 AMP |
| | | | | 318.64 | 155.55 | 277.78 | 29.88 | 281.55 | 389.63 | 18.99 | 98.68 PHASE |
| 396 | 22.39 | 95.18 | 649 | 46.92 | 18.83 | 19.89 | 36.67 | 17.25 | 3.85 | 4.14 | 6.59 AMP |
| | | | | 322.88 | 156.99 | 278.47 | 28.61 | 287.87 | 319.88 | 43.49 | 93.31 PHASE |
| 397 | 21.67 | 98.97 | 651 | 51.23 | 28.84 | 22.12 | 37.53 | 16.68 | 1.43 | 2.55 | 6.87 AMP |
| | | | | 326.86 | 158.99 | 277.85 | 24.86 | 298.89 | 73.19 | 43.48 | 84.87 PHASE |
| 398 | 25.15 | 49.48 | 658 | 18.11 | 4.59 | 2.87 | 14.47 | 9.43 | 9.54 | 5.39 | 1.76 AMP |
| | | | | 271.16 | 218.38 | 161.45 | 53.62 | 323.42 | 389.36 | 338.83 | 189.86 PHASE |
| 399 | 25.17 | 53.54 | 658 | 13.05 | 5.67 | 2.83 | 19.82 | 18.68 | 14.27 | 6.82 | 3.48 AMP |
| | | | | 298.42 | 282.22 | 244.44 | 46.72 | 274.11 | 272.78 | 337.61 | 91.89 PHASE |
| 400 | 24.61 | 54.75 | 658 | 18.44 | 7.59 | 4.39 | 21.71 | 13.82 | 15.79 | 6.52 | 3.88 AMP |
| | | | | 383.66 | 176.93 | 246.86 | 25.86 | 256.24 | 283.18 | 321.35 | 77.87 PHASE |
| 401 | 25.25 | 68.71 | 649 | 26.18 | 11.21 | 8.48 | 29.17 | 13.84 | 7.58 | 4.58 | 4.79 AMP |
| | | | | 322.89 | 179.17 | 264.35 | 44.17 | 265.97 | 328.97 | 353.28 | 189.25 PHASE |
| 402 | 25.35 | 87.98 | 658 | 34.88 | 14.27 | 13.74 | 36.37 | 14.12 | 6.59 | 3.12 | 5.95 AMP |
| | | | | 323.73 | 174.91 | 264.29 | 39.67 | 237.59 | 295.63 | 349.47 | 183.32 PHASE |
| 403 | 24.95 | 181.23 | 658 | 48.83 | 16.65 | 17.59 | 37.87 | 13.71 | 6.28 | 2.41 | 5.81 AMP |
| | | | | 338.19 | 171.41 | 268.92 | 31.81 | 228.31 | 381.81 | 356.58 | 89.81 PHASE |

TABLE VII.- Continued

(g) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|-------|--------|--------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 5.88 | 11.44 | 649 | 7.28 | 1.86 | .43 | 1.82 | 1.93 | .58 | .56 | .88 AMP |
| | | | | 331.86 | 128.54 | 358.82 | 255.34 | 317.82 | 52.91 | 283.19 | 238.88 PHASE |
| 386 | 4.83 | 11.42 | 658 | 7.68 | 1.77 | .49 | 1.95 | 1.99 | .64 | .51 | .82 AMP |
| | | | | 338.13 | 126.35 | 336.85 | 258.46 | 324.73 | 54.68 | 271.83 | 47.24 PHASE |
| 387 | 2.18 | 11.35 | 658 | 8.86 | 1.69 | .48 | 1.93 | 1.93 | .48 | .64 | .14 AMP |
| | | | | 346.98 | 132.68 | 328.29 | 262.82 | 331.18 | 88.47 | 286.94 | 135.18 PHASE |
| 388 | .17 | 12.18 | 658 | 9.95 | 1.52 | .36 | 1.77 | 1.84 | .36 | .56 | .19 AMP |
| | | | | 349.77 | 116.29 | 345.18 | 245.93 | 313.84 | 58.74 | 277.11 | 71.96 PHASE |
| 389 | -1.87 | 13.24 | 658 | 10.38 | 1.48 | .35 | 1.85 | 2.25 | .72 | .28 | .26 AMP |
| | | | | 353.48 | 98.41 | 3.19 | 254.35 | 327.88 | 48.85 | 335.65 | 76.39 PHASE |
| 398 | -4.19 | 15.74 | 649 | 12.37 | 1.87 | .88 | 1.61 | 3.83 | 1.63 | .75 | .49 AMP |
| | | | | 355.31 | 64.98 | 23.53 | 269.28 | 341.78 | 39.83 | 75.84 | 94.46 PHASE |
| 391 | 5.84 | 9.51 | 658 | 6.28 | 1.39 | .79 | 1.69 | 1.65 | .31 | .43 | .17 AMP |
| | | | | 331.49 | 118.22 | 328.47 | 252.13 | 383.98 | 64.82 | 288.11 | 211.98 PHASE |
| 392 | 3.44 | 9.48 | 658 | 6.65 | 1.14 | .84 | 1.72 | 1.71 | .45 | .42 | .12 AMP |
| | | | | 339.28 | 116.34 | 322.61 | 256.38 | 311.84 | 57.49 | 283.92 | 221.45 PHASE |
| 393 | 1.74 | 9.81 | 658 | 7.86 | .93 | .87 | 1.73 | 1.78 | .36 | .56 | .19 AMP |
| | | | | 346.21 | 123.68 | 313.72 | 256.79 | 311.37 | 75.38 | 298.68 | 281.49 PHASE |
| 394 | .13 | 18.37 | 658 | 7.63 | .87 | .81 | 1.81 | 1.88 | .22 | .63 | .14 AMP |
| | | | | 348.88 | 123.89 | 291.91 | 248.99 | 296.66 | 56.39 | 273.75 | 191.55 PHASE |
| 395 | -1.76 | 11.88 | 658 | 8.42 | 1.81 | .81 | 2.87 | 1.93 | .34 | .66 | .13 AMP |
| | | | | 355.29 | 124.38 | 278.16 | 242.63 | 384.47 | 56.47 | 263.77 | 261.94 PHASE |
| 396 | -2.69 | 12.82 | 649 | 8.98 | 1.18 | .79 | 2.25 | 2.86 | .39 | .55 | .14 AMP |
| | | | | 357.66 | 123.75 | 254.41 | 242.57 | 386.98 | 49.27 | 262.68 | 243.88 PHASE |
| 397 | -3.78 | 12.62 | 651 | 9.64 | 1.32 | .77 | 2.38 | 2.83 | .51 | .48 | .28 AMP |
| | | | | 359.34 | 117.18 | 247.88 | 242.13 | 318.12 | 39.86 | 262.74 | 239.36 PHASE |
| 398 | 4.44 | 7.67 | 658 | 5.65 | .77 | .88 | 1.34 | 1.38 | .22 | .38 | .15 AMP |
| | | | | 331.93 | 95.95 | 321.79 | 251.68 | 387.41 | 56.42 | 293.14 | 172.25 PHASE |
| 399 | 2.88 | 7.81 | 658 | 5.99 | .53 | .89 | 1.46 | 1.54 | .28 | .41 | .28 AMP |
| | | | | 338.38 | 185.89 | 388.88 | 243.39 | 295.85 | 42.98 | 274.19 | 134.68 PHASE |
| 488 | 1.22 | 7.92 | 658 | 6.42 | .27 | .79 | 1.38 | 1.41 | .28 | .54 | .19 AMP |
| | | | | 342.38 | 128.65 | 294.92 | 232.85 | 281.18 | 58.89 | 257.99 | 184.83 PHASE |
| 481 | -.58 | 8.88 | 649 | 7.15 | .35 | .93 | 1.63 | 1.68 | .14 | .56 | .83 AMP |
| | | | | 352.84 | 172.13 | 291.44 | 249.79 | 384.23 | 37.73 | 278.62 | 148.88 PHASE |
| 482 | -2.38 | 18.81 | 658 | 7.89 | .88 | 1.87 | 1.97 | 1.81 | .24 | .64 | .83 AMP |
| | | | | 357.48 | 175.88 | 266.88 | 244.76 | 385.43 | 52.95 | 254.84 | 337.88 PHASE |
| 483 | -3.38 | 18.93 | 658 | 8.42 | .63 | 1.18 | 2.16 | 2.88 | .32 | .61 | .82 AMP |
| | | | | 358.24 | 168.88 | 249.68 | 238.69 | 382.85 | 58.86 | 245.38 | 313.16 PHASE |

TABLE VII.- Continued

(g) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | -5.15 | 34.78 | 649 | 22.25 | 9.28 | 6.21 | 4.23 | 5.18 | 2.24 | 3.38 | 3.84 AMP |
| | | | | 134.51 | 332.31 | 324.68 | 137.74 | 239.72 | 356.21 | 221.74 | 22.74 PHASE |
| 386 | -3.84 | 38.48 | 650 | 23.74 | 18.48 | 6.94 | 4.49 | 5.68 | 2.12 | 3.13 | 3.65 AMP |
| | | | | 138.17 | 332.72 | 331.82 | 138.57 | 246.28 | 356.18 | 212.65 | 34.68 PHASE |
| 387 | -2.49 | 41.18 | 650 | 25.36 | 12.09 | 7.43 | 4.65 | 6.28 | 1.64 | 2.95 | 3.55 AMP |
| | | | | 142.72 | 335.75 | 344.84 | 143.18 | 258.99 | 1.72 | 229.71 | 48.51 PHASE |
| 388 | -1.08 | 44.19 | 650 | 26.68 | 13.37 | 8.27 | 4.78 | 5.86 | 1.78 | 2.63 | 3.49 AMP |
| | | | | 141.38 | 325.98 | 338.21 | 125.56 | 239.84 | 317.98 | 218.55 | 11.52 PHASE |
| 389 | .22 | 48.81 | 650 | 27.98 | 14.88 | 9.37 | 5.08 | 6.56 | 2.18 | 1.28 | 3.18 AMP |
| | | | | 144.18 | 325.87 | 331.77 | 127.58 | 245.97 | 312.15 | 217.11 | 17.05 PHASE |
| 390 | 1.28 | 51.79 | 649 | 28.49 | 15.98 | 10.77 | 4.72 | 7.86 | 2.64 | .72 | 2.79 AMP |
| | | | | 146.13 | 324.17 | 328.33 | 117.59 | 258.49 | 318.89 | 184.63 | 15.82 PHASE |
| 391 | -3.06 | 38.19 | 650 | 28.38 | 8.58 | 4.68 | 3.34 | 6.87 | .48 | 2.91 | 1.24 AMP |
| | | | | 137.84 | 341.36 | 385.25 | 158.42 | 228.57 | 324.86 | 227.84 | 34.72 PHASE |
| 392 | -2.48 | 33.29 | 650 | 21.49 | 9.77 | 5.41 | 3.55 | 7.25 | .88 | 2.78 | .96 AMP |
| | | | | 139.76 | 337.17 | 315.81 | 156.71 | 232.36 | 327.83 | 228.95 | 25.78 PHASE |
| 393 | -1.15 | 37.93 | 650 | 22.84 | 11.19 | 5.89 | 4.86 | 7.36 | .59 | 2.47 | 1.12 AMP |
| | | | | 142.28 | 335.78 | 322.22 | 152.58 | 237.22 | 312.12 | 228.54 | 34.37 PHASE |
| 394 | .17 | 48.68 | 650 | 24.12 | 12.36 | 6.73 | 4.16 | 7.59 | .72 | 2.54 | 1.54 AMP |
| | | | | 148.89 | 327.51 | 328.25 | 135.46 | 224.79 | 288.48 | 282.91 | 5.33 PHASE |
| 395 | 1.54 | 44.64 | 650 | 25.78 | 14.86 | 7.86 | 4.41 | 7.76 | 1.35 | 1.81 | 1.51 AMP |
| | | | | 142.97 | 325.23 | 326.43 | 133.67 | 228.88 | 282.78 | 215.49 | 338.13 PHASE |
| 396 | 2.25 | 47.58 | 649 | 26.51 | 14.98 | 8.67 | 4.34 | 8.18 | 1.37 | 1.18 | 1.79 AMP |
| | | | | 143.62 | 323.68 | 327.79 | 129.26 | 229.11 | 285.14 | 233.56 | 324.28 PHASE |
| 397 | 2.84 | 49.18 | 651 | 27.52 | 15.79 | 9.22 | 4.46 | 7.89 | 1.61 | .97 | 1.87 AMP |
| | | | | 144.16 | 322.27 | 326.54 | 123.98 | 228.75 | 288.65 | 251.74 | 316.87 PHASE |
| 398 | -1.79 | 26.26 | 650 | 18.88 | 7.06 | 3.97 | 2.44 | 6.55 | .18 | 1.95 | .62 AMP |
| | | | | 138.54 | 351.42 | 297.18 | 182.54 | 229.34 | 111.84 | 233.22 | 58.84 PHASE |
| 399 | -.58 | 29.84 | 650 | 28.28 | 8.31 | 4.24 | 3.24 | 7.74 | .13 | 1.96 | .62 AMP |
| | | | | 138.95 | 342.35 | 382.52 | 163.61 | 216.85 | 282.91 | 218.54 | 25.82 PHASE |
| 400 | 1.88 | 31.11 | 650 | 28.95 | 8.83 | 4.84 | 3.63 | 7.12 | .11 | 2.86 | .85 AMP |
| | | | | 137.69 | 332.68 | 384.92 | 142.24 | 281.98 | 151.35 | 181.84 | 347.98 PHASE |
| 401 | 2.21 | 36.81 | 649 | 22.95 | 18.61 | 5.66 | 4.40 | 7.66 | .32 | 1.64 | 7.73 AMP |
| | | | | 144.84 | 333.67 | 338.42 | 156.89 | 224.18 | 275.68 | 212.83 | 16.13 PHASE |
| 402 | 3.64 | 39.75 | 650 | 24.36 | 11.98 | 6.68 | 5.81 | 8.82 | .51 | 1.39 | 1.23 AMP |
| | | | | 144.39 | 333.22 | 337.39 | 146.49 | 228.31 | 291.79 | 192.21 | 345.88 PHASE |
| 403 | 4.49 | 41.44 | 650 | 25.24 | 12.78 | 7.21 | 5.18 | 8.28 | .64 | 1.11 | 1.46 AMP |
| | | | | 143.89 | 327.47 | 338.88 | 134.81 | 213.24 | 286.89 | 174.96 | 323.62 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|-------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 11.37 | 27.59 | 649 | 6.37 | 3.57 | 4.34 | 7.58 | 7.89 | 4.17 | 1.65 | 2.82 AMP |
| | | | | 174.61 | 313.95 | 322.56 | 52.63 | 284.74 | 17.11 | 298.24 | 55.25 PHASE |
| 386 | 12.27 | 34.68 | 650 | 5.76 | 4.85 | 5.62 | 9.88 | 18.19 | 2.66 | .99 | 2.48 AMP |
| | | | | 189.63 | 316.98 | 327.28 | 54.95 | 277.36 | 253.68 | 326.51 | 62.44 PHASE |
| 387 | 13.18 | 36.79 | 650 | 4.99 | 4.35 | 7.26 | 18.86 | 11.99 | 5.61 | .86 | 2.95 AMP |
| | | | | 214.32 | 328.68 | 342.85 | 58.22 | 283.82 | 314.56 | 68.43 | 97.26 PHASE |
| 388 | 13.81 | 38.52 | 650 | 4.64 | 4.87 | 9.19 | 12.13 | 12.86 | 4.49 | .69 | 2.92 AMP |
| | | | | 233.81 | 316.71 | 325.97 | 41.39 | 269.49 | 333.89 | 91.86 | 54.86 PHASE |
| 389 | 14.55 | 47.53 | 650 | 4.67 | 4.79 | 11.58 | 12.86 | 14.12 | 2.17 | 2.21 | 2.84 AMP |
| | | | | 261.16 | 313.87 | 323.24 | 37.51 | 273.21 | 88.36 | 124.82 | 64.38 PHASE |
| 390 | 15.72 | 52.68 | 649 | 5.84 | 4.67 | 14.25 | 12.62 | 17.35 | 6.71 | 3.62 | 2.37 AMP |
| | | | | 281.38 | 384.21 | 313.54 | 28.24 | 269.82 | 165.18 | 122.77 | 57.86 PHASE |
| 391 | 9.83 | 23.96 | 650 | 6.31 | 3.16 | 2.47 | 6.32 | 7.16 | 3.12 | 2.26 | 1.47 AMP |
| | | | | 165.39 | 316.62 | 311.37 | 56.58 | 271.26 | 311.18 | 385.82 | 73.76 PHASE |
| 392 | 18.34 | 29.48 | 650 | 5.47 | 3.74 | 3.89 | 7.16 | 9.64 | 5.22 | 2.18 | 2.25 AMP |
| | | | | 176.22 | 317.75 | 319.38 | 54.18 | 263.97 | 263.28 | 321.58 | 83.13 PHASE |
| 393 | 12.37 | 34.87 | 650 | 4.36 | 3.94 | 4.89 | 9.89 | 11.52 | 7.13 | 1.95 | 2.68 AMP |
| | | | | 195.64 | 318.22 | 328.79 | 58.98 | 265.78 | 294.68 | 341.58 | 93.24 PHASE |
| 394 | 13.72 | 35.47 | 650 | 3.57 | 4.34 | 6.62 | 11.47 | 12.25 | 5.89 | 2.12 | 2.71 AMP |
| | | | | 213.19 | 389.86 | 322.58 | 35.86 | 247.28 | 287.47 | 328.38 | 66.16 PHASE |
| 395 | 14.93 | 39.16 | 650 | 3.43 | 4.93 | 9.44 | 14.84 | 11.66 | 3.67 | 1.31 | 2.98 AMP |
| | | | | 253.58 | 383.94 | 322.85 | 37.83 | 245.53 | 288.89 | 338.39 | 67.11 PHASE |
| 396 | 15.43 | 48.52 | 649 | 3.69 | 5.27 | 11.31 | 14.94 | 11.72 | 2.79 | .81 | 2.32 AMP |
| | | | | 278.39 | 388.65 | 321.85 | 35.23 | 247.48 | 287.23 | .56 | 65.92 PHASE |
| 397 | 16.15 | 42.14 | 651 | 3.67 | 5.56 | 12.54 | 15.41 | 18.88 | 1.54 | .67 | 2.24 AMP |
| | | | | 288.82 | 293.28 | 316.33 | 38.49 | 252.32 | 283.83 | 326.38 | 54.13 PHASE |
| 398 | 12.12 | 28.26 | 650 | 6.69 | 2.93 | 1.25 | 4.96 | 6.76 | 3.92 | 2.55 | 1.18 AMP |
| | | | | 168.61 | 388.79 | 298.42 | 54.63 | 265.21 | 298.48 | 385.83 | 83.54 PHASE |
| 399 | 11.27 | 38.72 | 650 | 5.86 | 3.69 | 2.52 | 6.72 | 9.43 | 6.28 | 2.47 | 1.89 AMP |
| | | | | 164.46 | 386.25 | 389.88 | 58.89 | 238.21 | 262.63 | 385.87 | 73.84 PHASE |
| 400 | 18.98 | 38.95 | 650 | 4.58 | 3.52 | 3.79 | 7.98 | 18.11 | 6.84 | 2.25 | 2.83 AMP |
| | | | | 178.23 | 382.52 | 388.38 | 33.98 | 225.11 | 272.64 | 298.17 | 49.54 PHASE |
| 401 | 12.57 | 33.46 | 649 | 2.76 | 4.88 | 5.33 | 18.81 | 18.84 | 3.72 | 1.65 | 2.34 AMP |
| | | | | 198.86 | 386.98 | 327.58 | 52.36 | 238.21 | 384.45 | 316.43 | 93.67 PHASE |
| 402 | 14.72 | 48.58 | 650 | 1.66 | 4.78 | 7.38 | 13.93 | 12.28 | 3.78 | .91 | 2.58 AMP |
| | | | | 242.51 | 381.56 | 326.72 | 47.85 | 223.13 | 282.67 | 382.64 | 79.66 PHASE |
| 403 | 15.92 | 44.86 | 650 | 1.93 | 5.12 | 8.76 | 15.82 | 12.35 | 3.88 | .54 | 1.92 AMP |
| | | | | 275.21 | 293.78 | 322.85 | 48.41 | 218.41 | 282.93 | 388.48 | 57.56 PHASE |

TABLE VII.- Concluded

(g) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 15 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | 1.89 | 8.16 | 649 | 4.55 | 2.82 | .28 | .93 | 1.21 | .15 | .62 | .14 AMP |
| | | | | 316.98 | 115.88 | 156.29 | 291.18 | 314.62 | 146.58 | 45.98 | 91.63 PHASE |
| 386 | .36 | 8.34 | 658 | 4.71 | 2.82 | .34 | .96 | 1.38 | .16 | .58 | .84 AMP |
| | | | | 326.29 | 124.71 | 184.24 | 294.53 | 318.18 | 121.28 | 47.42 | 55.12 PHASE |
| 387 | -1.24 | 8.82 | 658 | 4.93 | 2.11 | .49 | .97 | 1.28 | .16 | .44 | .85 AMP |
| | | | | 338.21 | 135.55 | 202.89 | 297.38 | 324.57 | 132.38 | 66.85 | 359.81 PHASE |
| 388 | -2.73 | 9.25 | 658 | 5.36 | 2.89 | .48 | .92 | 1.13 | .16 | .46 | .89 AMP |
| | | | | 344.28 | 132.43 | 183.14 | 282.86 | 299.47 | 73.18 | 19.89 | 2.16 PHASE |
| 389 | -4.19 | 18.18 | 658 | 6.13 | 1.95 | .45 | .95 | 1.25 | .42 | .39 | .88 AMP |
| | | | | 351.49 | 137.22 | 168.39 | 295.81 | 308.21 | 49.17 | 33.78 | 357.46 PHASE |
| 398 | -5.74 | 11.14 | 649 | 7.32 | 1.51 | .55 | .92 | 1.47 | .78 | .45 | .14 AMP |
| | | | | 354.63 | 138.88 | 97.31 | 326.86 | 321.18 | 42.44 | 28.98 | 382.35 PHASE |
| 391 | 1.62 | 6.73 | 658 | 3.93 | 1.51 | .12 | .85 | 1.12 | .14 | .47 | .17 AMP |
| | | | | 315.44 | 121.18 | 137.92 | 291.84 | 308.57 | 183.23 | 58.47 | 359.16 PHASE |
| 392 | .17 | 7.13 | 658 | 4.86 | 1.41 | .16 | .92 | 1.15 | .18 | .47 | .27 AMP |
| | | | | 326.83 | 129.58 | 188.14 | 298.17 | 312.32 | 138.56 | 56.72 | 346.67 PHASE |
| 393 | -1.38 | 8.87 | 658 | 4.34 | 1.44 | .23 | 1.81 | 1.87 | .18 | .42 | .32 AMP |
| | | | | 336.88 | 148.33 | 197.47 | 299.29 | 318.82 | 133.97 | 57.64 | 351.86 PHASE |
| 394 | -2.67 | 8.51 | 658 | 4.72 | 1.53 | .41 | 1.82 | 1.18 | .15 | .38 | .38 AMP |
| | | | | 342.56 | 148.18 | 183.48 | 282.68 | 289.38 | 184.18 | 27.16 | 328.87 PHASE |
| 395 | -4.25 | 9.96 | 658 | 5.28 | 1.74 | .57 | 1.18 | 1.25 | .32 | .35 | .41 AMP |
| | | | | 351.36 | 142.64 | 182.87 | 277.86 | 292.78 | 72.72 | 45.84 | 312.88 PHASE |
| 396 | -5.83 | 18.68 | 649 | 5.68 | 1.83 | .81 | 1.12 | 1.33 | .35 | .38 | .42 AMP |
| | | | | 354.78 | 143.72 | 178.38 | 271.42 | 294.85 | 64.68 | 55.14 | 318.18 PHASE |
| 397 | -5.88 | 18.92 | 651 | 6.12 | 1.94 | .88 | 1.87 | 1.33 | .38 | .47 | .43 AMP |
| | | | | 357.27 | 142.81 | 178.93 | 269.84 | 292.49 | 59.28 | 68.32 | 314.87 PHASE |
| 398 | 1.37 | 5.44 | 658 | 3.52 | .87 | .13 | .74 | .98 | .86 | .36 | .17 AMP |
| | | | | 314.49 | 126.49 | 148.87 | 294.45 | 308.94 | 198.31 | 51.94 | 351.44 PHASE |
| 399 | -.11 | 5.82 | 658 | 3.54 | .88 | .28 | .86 | .95 | .88 | .38 | .19 AMP |
| | | | | 325.73 | 139.99 | 193.95 | 286.74 | 299.78 | 184.23 | 38.47 | 315.32 PHASE |
| 488 | -1.53 | 5.94 | 658 | 3.83 | .98 | .24 | .88 | .77 | .14 | .26 | .14 AMP |
| | | | | 333.55 | 158.56 | 188.85 | 276.49 | 283.44 | 182.12 | 353.44 | 299.33 PHASE |
| 481 | -3.84 | 7.38 | 649 | 4.38 | 1.12 | .45 | 1.82 | .93 | .13 | .22 | .27 AMP |
| | | | | 347.57 | 167.35 | 285.35 | 288.85 | 388.87 | 73.65 | 21.84 | 314.13 PHASE |
| 482 | -4.58 | 8.66 | 658 | 4.92 | 1.34 | .79 | 1.19 | 1.14 | .38 | .11 | .33 AMP |
| | | | | 354.65 | 166.78 | 198.88 | 274.57 | 297.93 | 58.99 | 32.58 | 289.88 PHASE |
| 483 | -5.45 | 9.28 | 658 | 5.33 | 1.51 | .99 | 1.26 | 1.29 | .48 | .89 | .38 AMP |
| | | | | 356.26 | 161.85 | 192.87 | 262.64 | 293.28 | 46.65 | 35.63 | 276.58 PHASE |

PITCH LINK

| RUN NO 15 | | | | | | | | | | | |
|-----------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 385 | -4.79 | 12.88 | 649 | 5.92 | 1.28 | 1.29 | 2.35 | 2.71 | .98 | 1.51 | .78 AMP |
| | | | | 168.85 | 328.78 | 156.68 | 73.37 | 168.98 | 199.71 | 36.97 | 158.84 PHASE |
| 386 | -3.29 | 13.16 | 658 | 5.96 | 1.87 | 1.77 | 2.57 | 2.76 | .88 | 1.57 | .48 AMP |
| | | | | 175.88 | 337.56 | 158.97 | 79.88 | 178.29 | 281.59 | 28.64 | 172.33 PHASE |
| 387 | -1.75 | 14.83 | 658 | 6.38 | 1.83 | 1.98 | 2.47 | 2.85 | .41 | 1.38 | .45 AMP |
| | | | | 186.19 | 1.95 | 162.86 | 83.66 | 179.48 | 223.96 | 46.88 | 188.98 PHASE |
| 388 | -.89 | 15.78 | 658 | 7.38 | .68 | 2.39 | 2.32 | 3.81 | .52 | 1.14 | .58 AMP |
| | | | | 187.77 | 356.12 | 159.88 | 59.72 | 157.48 | 179.45 | 16.42 | 188.88 PHASE |
| 389 | 1.71 | 16.58 | 658 | 8.93 | .34 | 2.98 | 2.83 | 3.98 | .82 | .43 | .56 AMP |
| | | | | 192.63 | 4.43 | 168.17 | 64.52 | 166.12 | 197.88 | 335.34 | 228.75 PHASE |
| 398 | 3.84 | 21.76 | 649 | 11.37 | .58 | 3.98 | 3.32 | 5.14 | 1.82 | 1.55 | .94 AMP |
| | | | | 196.29 | 176.22 | 168.99 | 64.69 | 174.18 | 216.69 | 266.83 | 255.55 PHASE |
| 391 | -3.78 | 9.69 | 658 | 3.24 | .44 | 2.39 | 1.97 | 2.33 | .68 | 1.31 | .21 AMP |
| | | | | 164.24 | 9.35 | 145.84 | 63.68 | 154.86 | 174.96 | 52.72 | 78.36 PHASE |
| 392 | -2.39 | 18.97 | 658 | 3.61 | .55 | 2.78 | 2.85 | 2.53 | .98 | 1.16 | .27 AMP |
| | | | | 176.45 | 54.52 | 146.94 | 67.28 | 159.98 | 173.91 | 47.79 | 37.43 PHASE |
| 393 | -1.11 | 12.43 | 658 | 4.86 | .91 | 2.97 | 2.81 | 2.71 | .63 | 1.15 | .45 AMP |
| | | | | 187.73 | 72.92 | 147.11 | 66.66 | 161.62 | 166.68 | 52.18 | 46.72 PHASE |
| 394 | .13 | 14.59 | 658 | 4.78 | 1.12 | 3.18 | 2.26 | 2.98 | .71 | 1.82 | .37 AMP |
| | | | | 192.48 | 71.62 | 136.64 | 58.58 | 146.38 | 144.21 | 38.67 | 23.73 PHASE |
| 395 | 1.62 | 15.38 | 658 | 5.85 | 1.19 | 3.14 | 2.71 | 3.16 | .67 | 1.83 | .37 AMP |
| | | | | 281.26 | 66.84 | 133.97 | 55.93 | 153.37 | 144.87 | 45.36 | 341.72 PHASE |
| 396 | 2.41 | 15.87 | 649 | 6.68 | 1.13 | 3.88 | 3.85 | 3.42 | .82 | 1.78 | .39 AMP |
| | | | | 283.72 | 63.71 | 129.96 | 56.98 | 154.48 | 158.23 | 46.54 | 355.41 PHASE |
| 397 | 3.33 | 16.74 | 651 | 7.76 | 1.87 | 3.26 | 3.23 | 3.54 | .89 | .78 | .33 AMP |
| | | | | 284.75 | 59.27 | 138.35 | 54.38 | 154.92 | 166.83 | 54.53 | 325.72 PHASE |
| 398 | -2.76 | 7.98 | 658 | 1.75 | 1.82 | 2.72 | 1.45 | 2.89 | .47 | 1.84 | .25 AMP |
| | | | | 152.83 | 88.38 | 143.23 | 55.18 | 155.45 | 174.99 | 55.98 | 11.86 PHASE |
| 399 | -1.53 | 9.86 | 658 | 2.87 | 1.39 | 2.93 | 1.57 | 2.48 | .51 | .97 | .28 AMP |
| | | | | 173.73 | 82.14 | 138.84 | 48.82 | 144.98 | 159.42 | 39.89 | 8.34 PHASE |
| 488 | -.12 | 9.62 | 658 | 2.89 | 1.59 | 2.87 | 1.57 | 2.63 | .52 | .94 | .31 AMP |
| | | | | 198.82 | 76.28 | 127.86 | 39.63 | 129.47 | 141.67 | 8.18 | 18.49 PHASE |
| 481 | 1.89 | 12.67 | 649 | 3.65 | 1.94 | 3.28 | 2.77 | 2.98 | .49 | .92 | .33 AMP |
| | | | | 288.81 | 85.88 | 139.29 | 57.69 | 153.16 | 158.82 | 39.49 | 353.88 PHASE |
| 482 | 2.58 | 12.43 | 658 | 5.81 | 1.87 | 3.12 | 2.25 | 3.82 | .43 | .85 | .27 AMP |
| | | | | 285.98 | 79.96 | 127.72 | 61.47 | 153.87 | 158.93 | 33.31 | 388.33 PHASE |
| 483 | 3.37 | 13.39 | 658 | 5.98 | 1.89 | 3.18 | 2.55 | 3.19 | .37 | .75 | .14 AMP |
| | | | | 286.25 | 75.63 | 113.94 | 68.32 | 149.51 | 144.35 | 8.85 | 281.63 PHASE |

TABLE VIII.- ROTOR PERFORMANCE AND BLADE LOADS DATA FOR BASELINE
BLADE WITH SWEPT TIP AND 0° TABS

(a) $\mu = 0.20$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 440 | .1 | .0 | -.0 | .01223 | .00117 | .00117 |
| 441 | -.6 | .9 | 2.0 | .02776 | .00112 | .00120 |
| 442 | -1.3 | 2.1 | 4.0 | .04159 | .00072 | .00140 |
| 443 | -1.7 | 2.9 | 5.8 | .05362 | .00032 | .00168 |
| 444 | -1.7 | 4.1 | 7.9 | .06837 | -.00018 | .00220 |
| 445 | -2.0 | 3.9 | 10.2 | .08693 | .00083 | .00274 |
| 446 | -2.5 | 4.6 | 12.0 | .10006 | .00061 | .00352 |
| 447 | -3.1 | 5.4 | 13.9 | .11379 | .00008 | .00456 |
| 448 | -3.3 | 5.5 | 15.2 | .12232 | .00067 | .00527 |
| 449 | -3.8 | 6.2 | 15.9 | .12547 | -.00053 | .00580 |
| 450 | -.1 | .5 | .1 | .02704 | .00459 | .00080 |
| 451 | -.7 | 1.6 | 2.0 | .04144 | .00568 | .00074 |
| 452 | -1.3 | 2.2 | 3.9 | .05583 | .00685 | .00079 |
| 453 | -1.6 | 2.8 | 5.9 | .07021 | .00811 | .00095 |
| 454 | -1.9 | 3.3 | 7.9 | .08545 | .00953 | .00128 |
| 455 | -2.2 | 3.8 | 10.0 | .10048 | .01099 | .00179 |
| 456 | -2.8 | 4.3 | 11.8 | .11309 | .01190 | .00243 |
| 457 | -3.6 | 5.8 | 13.8 | .12513 | .01106 | .00377 |
| 458 | -3.8 | 6.1 | 14.9 | .13178 | .01188 | .00441 |
| 459 | -.4 | .9 | 2.0 | .01440 | -.00011 | .00149 |
| 460 | -1.1 | 1.7 | 3.9 | .02741 | -.00155 | .00177 |
| 461 | -1.5 | 2.5 | 6.1 | .04433 | -.00314 | .00226 |
| 462 | -1.7 | 3.8 | 7.9 | .05461 | -.00473 | .00289 |
| 463 | -1.9 | 3.9 | 9.9 | .07115 | -.00575 | .00356 |
| 464 | -2.3 | 4.4 | 12.0 | .08594 | -.00694 | .00440 |
| 465 | -2.9 | 5.0 | 13.8 | .09854 | -.00825 | .00533 |
| 466 | -3.5 | 5.9 | 15.7 | .11171 | -.01013 | .00656 |
| 467 | -3.5 | 5.9 | 17.0 | .11854 | -.01004 | .00727 |
| 468 | -.7 | 1.6 | 4.0 | .01339 | -.00135 | .00164 |
| 469 | -1.1 | 2.5 | 5.9 | .02661 | -.00403 | .00228 |
| 470 | -1.5 | 2.9 | 8.0 | .04179 | -.00669 | .00309 |
| 471 | -2.0 | 3.7 | 10.0 | .05614 | -.00966 | .00398 |
| 472 | -2.5 | 4.4 | 12.0 | .07049 | -.01237 | .00500 |
| 473 | -2.8 | 4.9 | 13.8 | .08398 | -.01463 | .00602 |
| 474 | -3.4 | 5.7 | 16.1 | .09824 | -.01804 | .00740 |
| 475 | -3.6 | 6.1 | 18.0 | .11158 | -.01959 | .00876 |
| 476 | -3.9 | 6.2 | 18.6 | .11657 | -.02043 | .00943 |



TABLE VIII.- Continued

(a) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 44# | 42.35 | 13.88 | 688 | 4.57 | 3.63 | 4.43 | .68 | 3.28 | .36 | .78 | 1.38 |
| 441 | 44.28 | 11.66 | 688 | 166.93 | 288.79 | 71.52 | 287.28 | 187.28 | 253.12 | 198.62 | 349.51 |
| 442 | 46.85 | 11.55 | 688 | 4.71 | 3.26 | 3.86 | 1.18 | 2.67 | .43 | .55 | .98 |
| 443 | 47.39 | 18.36 | 688 | 162.38 | 276.54 | 54.22 | 268.75 | 88.97 | 276.44 | 192.85 | 386.87 |
| 444 | 49.17 | 9.47 | 688 | 4.93 | 2.86 | 3.38 | 1.38 | 2.87 | .33 | .33 | .89 |
| 445 | 51.25 | 7.33 | 688 | 157.46 | 275.28 | 37.87 | 268.32 | 87.85 | 259.78 | 281.88 | 388.72 |
| 446 | 52.69 | 9.94 | 687 | 4.57 | 2.48 | 2.99 | 1.66 | 2.51 | .51 | .27 | 1.89 |
| 447 | 54.24 | 13.99 | 688 | 168.22 | 285.86 | 33.99 | 262.31 | 187.52 | 279.75 | 256.74 | 321.25 |
| 448 | 55.33 | 16.27 | 688 | 4.15 | 2.84 | 2.97 | 2.25 | 1.89 | .71 | .47 | 1.24 |
| 449 | 55.72 | 16.67 | 688 | 159.19 | 381.97 | 17.55 | 259.58 | 129.81 | 274.33 | 272.48 | 343.52 |
| 450 | 43.28 | 11.83 | 688 | 2.55 | 1.91 | 2.51 | 2.65 | 1.26 | .51 | .18 | .93 |
| 451 | 44.89 | 11.69 | 688 | 147.81 | 382.11 | 352.49 | 235.21 | 96.21 | 231.63 | 324.83 | 335.14 |
| 452 | 46.41 | 11.39 | 688 | 1.67 | 1.97 | 2.32 | 3.18 | 1.72 | .59 | .29 | .89 |
| 453 | 47.94 | 18.88 | 688 | 119.84 | 336.92 | 358.81 | 254.86 | 148.54 | 239.26 | 216.32 | 92.18 |
| 454 | 49.67 | 9.42 | 689 | 2.88 | 2.58 | 2.58 | 4.19 | 2.13 | .88 | .56 | 1.73 |
| 455 | 51.32 | 11.78 | 688 | 64.12 | 347.74 | 389.82 | 238.98 | 149.52 | 196.13 | 168.89 | 53.38 |
| 456 | 52.81 | 16.15 | 687 | 3.27 | 2.92 | 2.98 | 4.81 | 2.42 | 1.31 | .81 | 2.11 |
| 457 | 54.58 | 18.95 | 689 | 48.41 | 356.31 | 292.47 | 234.67 | 177.34 | 187.88 | 173.76 | 76.88 |
| 458 | 55.18 | 28.92 | 688 | 3.93 | 3.66 | 3.84 | 4.95 | 2.23 | .71 | .23 | 2.33 |
| 459 | 43.14 | 11.76 | 688 | 48.86 | 4.46 | 283.84 | 229.48 | 173.81 | 198.84 | 175.28 | 44.71 |
| 460 | 44.88 | 11.79 | 688 | 5.38 | 3.88 | 3.76 | 2.28 | 2.71 | .55 | .81 | .61 |
| 461 | 46.88 | 11.92 | 688 | 164.56 | 292.24 | 88.45 | 98.81 | 183.29 | 382.68 | 235.76 | 176.31 |
| 462 | 48.38 | 12.79 | 688 | 5.59 | 3.66 | 3.31 | .11 | 2.31 | .49 | .57 | .36 |
| 463 | 58.87 | 12.56 | 688 | 161.38 | 285.11 | 76.27 | 233.18 | 95.71 | 292.88 | 235.58 | 342.45 |
| 464 | 51.97 | 13.99 | 618 | 5.27 | 3.45 | 3.18 | .46 | 2.36 | .41 | .16 | .93 |
| 465 | 53.61 | 14.79 | 688 | 161.23 | 283.48 | 63.76 | 232.78 | 94.56 | 291.35 | 284.55 | 358.77 |
| 466 | 55.48 | 15.37 | 688 | 4.78 | 3.84 | 2.91 | 2.58 | 2.45 | .89 | .38 | 1.38 |
| 467 | 56.39 | 16.26 | 688 | 168.12 | 288.97 | 58.68 | 213.85 | 89.85 | 271.39 | 162.88 | 7.97 |
| 468 | 44.83 | 8.45 | 688 | 3.86 | 2.74 | 2.48 | 1.29 | 1.86 | .38 | .52 | 1.27 |
| 469 | 45.84 | 9.25 | 688 | 159.38 | 286.39 | 68.42 | 223.42 | 125.46 | 184.81 | 156.47 | 51.81 |
| 470 | 47.73 | 9.38 | 688 | 2.58 | 2.32 | 1.36 | 2.47 | 2.86 | 1.85 | .98 | 1.44 |
| 471 | 49.58 | 8.35 | 688 | 148.75 | 295.57 | 59.19 | 236.77 | 171.82 | 189.88 | 179.87 | 123.85 |
| 472 | 51.55 | 9.65 | 688 | 1.84 | 2.84 | .37 | 3.57 | 2.42 | 1.83 | 1.51 | 1.96 |
| 473 | 53.38 | 18.78 | 688 | 114.49 | 383.56 | 359.43 | 234.72 | 184.34 | 168.68 | 178.69 | 125.28 |
| 474 | 55.35 | 11.89 | 688 | 65.57 | 328.28 | 268.58 | 248.43 | 285.34 | 176.31 | 198.18 | 137.17 |
| 475 | 57.15 | 13.79 | 687 | 3.41 | 3.18 | 3.21 | 5.38 | 3.81 | 2.73 | .71 | 1.98 |
| 476 | 58.83 | 15.44 | 688 | 58.92 | 337.61 | 261.36 | 244.82 | 284.96 | 179.83 | 184.27 | 78.24 |
| | | | | 4.87 | 2.53 | 4.14 | 1.52 | 3.98 | .79 | 1.38 | .68 |
| | | | | 161.78 | 284.15 | 51.28 | 289.65 | 118.92 | 325.88 | 241.99 | 59.61 |
| | | | | 4.28 | 2.24 | 3.93 | 1.83 | 3.86 | .95 | 1.27 | 1.72 |
| | | | | 153.52 | 288.26 | 25.93 | 263.36 | 85.85 | 297.86 | 283.22 | 14.48 |
| | | | | 4.19 | 1.91 | 3.68 | 2.17 | 3.41 | 1.23 | 1.81 | 2.43 |
| | | | | 155.62 | 286.96 | 18.93 | 252.75 | 75.72 | 288.19 | 199.56 | 18.24 |
| | | | | 4.23 | 1.37 | 3.43 | 2.33 | 3.16 | 1.66 | .85 | 2.86 |
| | | | | 152.91 | 387.53 | 359.25 | 249.51 | 63.63 | 273.52 | 189.88 | .96 |
| | | | | 3.17 | 1.19 | 3.58 | 2.78 | 2.61 | 1.98 | .63 | 3.45 |
| | | | | 153.84 | 348.92 | .56 | 258.19 | 48.12 | 282.94 | 213.35 | 8.37 |
| | | | | 2.13 | 1.44 | 3.25 | 3.38 | 3.33 | 2.33 | .16 | 3.83 |
| | | | | 127.75 | 2.43 | 329.86 | 226.89 | 18.48 | 258.74 | 169.62 | 328.94 |
| | | | | 1.98 | 2.18 | 3.15 | 3.62 | 3.63 | 2.58 | .11 | 3.78 |
| | | | | 98.17 | 24.87 | 326.42 | 237.94 | 38.88 | 273.88 | 184.12 | 351.28 |
| | | | | 3.85 | 3.16 | 3.17 | 4.88 | 3.49 | 2.62 | .25 | 4.81 |
| | | | | 59.85 | 34.92 | 389.55 | 225.28 | 21.38 | 258.28 | 133.43 | 342.86 |
| | | | | 4.48 | 3.78 | 3.27 | 4.44 | 2.54 | 2.58 | .12 | 4.28 |
| | | | | 42.33 | 38.21 | 298.86 | 288.84 | 13.63 | 234.86 | 162.19 | 327.19 |
| | | | | 3.67 | 1.34 | 2.72 | .88 | 2.54 | .62 | .66 | 1.38 |
| | | | | 158.85 | 286.74 | 23.88 | 263.37 | 74.14 | 287.94 | 197.28 | 8.55 |
| | | | | 4.86 | 1.22 | 2.68 | .94 | 2.34 | .59 | .54 | 1.49 |
| | | | | 147.83 | 296.18 | 18.23 | 257.28 | 68.94 | 271.74 | 181.57 | 357.16 |
| | | | | 3.84 | 1.11 | 2.66 | 1.17 | 2.25 | .81 | .41 | 1.56 |
| | | | | 147.38 | 319.96 | 1.78 | 258.28 | 48.52 | 262.74 | 163.91 | 343.25 |
| | | | | 3.55 | 1.89 | 2.51 | 1.23 | 1.99 | .88 | .26 | 1.84 |
| | | | | 144.55 | 355.21 | 5.59 | 259.11 | 46.38 | 281.75 | 218.42 | 5.56 |
| | | | | 3.89 | 1.54 | 2.46 | 1.43 | 2.48 | .97 | .21 | 2.13 |
| | | | | 128.54 | 18.97 | 342.31 | 236.81 | 14.76 | 248.81 | 188.52 | 326.64 |
| | | | | 2.69 | 2.23 | 2.45 | 1.67 | 2.82 | 1.84 | .58 | 2.18 |
| | | | | 185.85 | 21.82 | 321.33 | 229.82 | 8.68 | 248.73 | 85.14 | 313.18 |
| | | | | 3.27 | 3.18 | 2.97 | 1.93 | 2.77 | 1.18 | .72 | 2.19 |
| | | | | 69.57 | 25.45 | 288.77 | 289.45 | 349.82 | 213.97 | 67.89 | 277.37 |
| | | | | 5.17 | 4.29 | 3.54 | 2.38 | 2.56 | 1.41 | .76 | 2.59 |
| | | | | 48.83 | 35.74 | 288.25 | 284.42 | 351.73 | 215.41 | 71.42 | 289.37 |
| | | | | 6.37 | 4.81 | 3.84 | 2.73 | 2.58 | 1.51 | 1.87 | 2.81 |
| | | | | 48.95 | 32.82 | 265.53 | 185.53 | 334.46 | 196.88 | 48.82 | 262.17 |

TABLE VIII.- Continued

(a) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 448 | 65.36 | 11.36 | 688 | 5.56 | 2.11 | .73 | .86 | 2.56 | .53 | .29 | AMP |
| 441 | 62.97 | 14.33 | 688 | 254.21 | 93.19 | 252.92 | 38.97 | 154.81 | 241.29 | 295.79 | 349.81 PHASE |
| 442 | 61.58 | 21.15 | 688 | 5.64 | 2.18 | 1.87 | .54 | .48 | .33 | .53 | AMP |
| 443 | 68.48 | 38.18 | 688 | 267.59 | 186.77 | 268.23 | 3.37 | 141.14 | 258.88 | 338.65 | 314.18 PHASE |
| 444 | 58.66 | 43.83 | 688 | 9.82 | 2.96 | 3.42 | .87 | 1.42 | 5.76 | 1.37 | .45 AMP |
| 445 | 56.88 | 68.41 | 688 | 275.91 | 188.84 | 246.41 | 338.31 | 173.16 | 299.26 | 334.46 | 326.23 PHASE |
| 446 | 53.57 | 77.83 | 687 | 18.42 | 6.39 | 3.75 | 1.65 | 2.17 | 4.62 | 2.58 | .28 AMP |
| 447 | 58.94 | 95.39 | 688 | 381.38 | 188.47 | 233.18 | 313.29 | 255.22 | 357.39 | 2.92 | 342.96 PHASE |
| 448 | 48.98 | 184.98 | 688 | 31.78 | 9.28 | 6.32 | 3.88 | 1.95 | 2.79 | 2.78 | .56 AMP |
| 449 | 48.79 | 118.16 | 688 | 328.41 | 184.28 | 199.87 | 316.22 | 291.24 | 73.37 | 38.87 | 332.15 PHASE |
| 450 | 57.23 | 17.47 | 688 | 45.67 | 18.55 | 12.88 | 3.16 | 2.19 | 1.85 | 2.13 | .73 AMP |
| 451 | 55.89 | 21.62 | 688 | 336.39 | 181.13 | 189.88 | 381.65 | 23.36 | 26.44 | 278.28 | 389.73 PHASE |
| 452 | 54.53 | 31.95 | 688 | 58.83 | 18.48 | 15.87 | 4.61 | 2.32 | 2.14 | 3.58 | .25 AMP |
| 453 | 52.21 | 48.44 | 688 | 349.13 | 118.89 | 215.42 | 314.86 | 187.77 | 49.31 | 328.82 | 313.49 PHASE |
| 454 | 49.63 | 51.32 | 689 | 72.37 | 9.88 | 17.17 | 7.88 | 1.24 | 1.95 | 3.56 | .87 AMP |
| 455 | 46.73 | 68.91 | 688 | 348.74 | 96.22 | 286.87 | 295.78 | 68.41 | 4.18 | 288.77 | 314.75 PHASE |
| 456 | 44.39 | 88.66 | 687 | 82.27 | 9.38 | 17.58 | 7.54 | .76 | 6.42 | 2.93 | .85 AMP |
| 457 | 43.92 | 98.82 | 689 | 356.38 | 184.18 | 214.49 | 385.46 | 5.68 | 358.56 | 279.77 | 244.39 PHASE |
| 458 | 42.82 | 189.83 | 688 | 85.91 | 8.38 | 18.13 | 7.45 | 1.15 | 5.39 | 2.27 | 1.81 AMP |
| 459 | 56.88 | 15.17 | 688 | 354.55 | 181.85 | 211.33 | 382.76 | 71.85 | 5.54 | 277.78 | 288.64 PHASE |
| 460 | 55.94 | 18.54 | 688 | 8.69 | 2.77 | 1.87 | 1.15 | 1.58 | 1.82 | .63 | AMP |
| 461 | 55.91 | 21.32 | 688 | 263.35 | 112.81 | 262.52 | 85.55 | 261.79 | 256.28 | 63.11 | 287.58 PHASE |
| 462 | 55.76 | 32.73 | 688 | 12.74 | 3.18 | 4.87 | 1.88 | 1.61 | 2.78 | .48 | .21 AMP |
| 463 | 54.67 | 49.68 | 688 | 271.44 | 184.18 | 264.81 | 77.93 | 248.29 | 281.89 | 22.58 | 67.83 PHASE |
| 464 | 54.87 | 78.26 | 618 | 19.41 | 5.54 | 4.52 | .53 | 1.84 | 5.67 | 1.32 | .45 AMP |
| 465 | 51.58 | 188.68 | 688 | 289.53 | 97.54 | 273.42 | 48.64 | 258.79 | 339.77 | 352.65 | 88.14 PHASE |
| 466 | 51.58 | 188.68 | 688 | 28.18 | 8.97 | 2.41 | 1.49 | 2.64 | 5.72 | 1.82 | .53 AMP |
| 467 | 58.41 | 112.79 | 688 | 388.81 | 99.87 | 234.58 | 322.58 | 283.67 | 24.35 | 28.68 | 26.29 PHASE |
| 468 | 55.89 | 12.77 | 688 | 39.88 | 11.36 | 5.55 | 2.28 | 2.34 | 3.68 | .68 | .81 AMP |
| 469 | 56.88 | 12.36 | 688 | 327.58 | 118.44 | 282.68 | 341.64 | 343.85 | 36.33 | 188.31 | 53.28 PHASE |
| 470 | 56.72 | 28.36 | 688 | 53.56 | 12.26 | 18.58 | 3.14 | 2.18 | 3.24 | 1.68 | AMP |
| 471 | 57.18 | 36.73 | 688 | 342.72 | 114.84 | 218.32 | 322.75 | 73.99 | 73.58 | 276.58 | 86.21 PHASE |
| 472 | 57.84 | 53.68 | 688 | 64.12 | 12.91 | 13.84 | 4.68 | 2.87 | 1.56 | 2.73 | .42 AMP |
| 473 | 55.95 | 72.88 | 688 | 347.61 | 189.73 | 219.89 | 311.34 | 119.19 | 275.97 | 249.21 | 134.17 PHASE |
| 474 | 55.87 | 88.68 | 688 | 77.58 | 13.18 | 14.44 | 6.28 | 1.82 | 4.24 | 4.18 | 1.82 AMP |
| 475 | 54.15 | 111.57 | 687 | 348.85 | 183.18 | 211.46 | 384.28 | 137.66 | 317.87 | 265.59 | 264.83 PHASE |
| 476 | 53.12 | 119.11 | 688 | 86.11 | 13.31 | 14.88 | 5.67 | 2.68 | 8.25 | 3.85 | 2.21 AMP |
| | | | | 353.68 | 186.25 | 216.86 | 386.33 | 189.97 | 334.38 | 237.81 | 276.48 PHASE |
| | | | | 3.81 | 1.72 | 1.97 | .58 | 2.36 | 6.81 | .85 | .34 AMP |
| | | | | 273.88 | 118.55 | 272.43 | 39.79 | 183.63 | 271.55 | 3.72 | 122.22 PHASE |
| | | | | 4.47 | 2.52 | 2.64 | .85 | 2.78 | 7.78 | 1.32 | .66 AMP |
| | | | | 282.86 | 93.65 | 249.99 | 348.88 | 66.81 | 254.85 | 313.36 | 54.89 PHASE |
| | | | | 9.87 | 5.23 | 4.27 | 1.14 | 2.14 | 7.76 | 2.42 | 1.81 AMP |
| | | | | 299.14 | 95.18 | 228.84 | 328.88 | 333.17 | 298.28 | 318.62 | 73.85 PHASE |
| | | | | 28.48 | 7.27 | 5.47 | 1.96 | 3.36 | 2.68 | 2.34 | .69 AMP |
| | | | | 311.58 | 97.28 | 198.28 | 312.91 | 388.19 | 347.55 | 348.21 | 78.24 PHASE |
| | | | | 32.97 | 8.28 | 18.43 | 3.83 | 4.93 | 1.22 | .58 | 1.89 AMP |
| | | | | 335.84 | 181.75 | 194.88 | 338.92 | 343.87 | 183.12 | 229.48 | 64.58 PHASE |
| | | | | 48.91 | 7.36 | 15.26 | 3.54 | 3.38 | .95 | 2.56 | .99 AMP |
| | | | | 342.24 | 85.37 | 198.57 | 384.14 | 336.45 | 186.98 | 232.28 | .23 PHASE |
| | | | | 61.59 | 6.42 | 17.83 | 4.79 | 1.72 | 1.38 | 3.27 | .82 AMP |
| | | | | 351.21 | 81.78 | 288.59 | 313.51 | 348.83 | 142.34 | 286.49 | 38.62 PHASE |
| | | | | 77.64 | 6.51 | 19.51 | 5.88 | 1.87 | 1.51 | 3.76 | .73 AMP |
| | | | | 352.53 | 68.68 | 287.64 | 318.42 | 388.85 | 93.84 | 284.59 | 28.38 PHASE |
| | | | | 87.73 | 6.38 | 19.49 | 6.29 | 3.38 | 3.55 | 2.77 | .25 AMP |
| | | | | 355.32 | 53.78 | 284.94 | 386.38 | 262.84 | 357.32 | 245.53 | 68.95 PHASE |
| | | | | 2.48 | 1.24 | 2.38 | .58 | 2.47 | 3.18 | .57 | .48 AMP |
| | | | | 297.62 | 118.98 | 249.82 | 47.73 | 34.55 | 256.93 | 328.71 | 79.48 PHASE |
| | | | | 4.39 | 2.25 | 3.45 | .89 | 2.88 | 4.14 | .78 | .59 AMP |
| | | | | 382.85 | 97.47 | 237.66 | 18.98 | 353.78 | 274.96 | 327.23 | 68.68 PHASE |
| | | | | 18.89 | 4.37 | 4.33 | 1.48 | 3.88 | 4.86 | 1.13 | .38 AMP |
| | | | | 318.71 | 99.23 | 283.83 | 346.87 | 389.22 | 315.24 | 358.41 | 65.88 PHASE |
| | | | | 22.61 | 5.22 | 8.23 | 2.89 | 3.72 | .92 | .74 | .53 AMP |
| | | | | 336.58 | 118.19 | 198.25 | 4.68 | 339.82 | 388.82 | 112.43 | 63.88 PHASE |
| | | | | 35.98 | 4.68 | 12.42 | 2.68 | 3.89 | .45 | 1.82 | .62 AMP |
| | | | | 343.28 | 182.12 | 191.24 | 349.95 | 336.35 | 48.84 | 223.24 | 21.62 PHASE |
| | | | | 51.66 | 2.86 | 16.86 | 2.98 | 1.49 | 1.93 | 1.72 | .78 AMP |
| | | | | 349.88 | 85.75 | 196.47 | 333.23 | 324.68 | 92.53 | 278.85 | 23.86 PHASE |
| | | | | 69.71 | 2.47 | 18.73 | 3.98 | 2.12 | 3.15 | 1.59 | .64 AMP |
| | | | | 358.84 | 43.32 | 198.48 | 314.38 | 226.58 | 45.31 | 381.45 | 1.19 PHASE |
| | | | | 98.89 | 3.15 | 19.84 | 4.53 | 6.79 | 4.89 | .97 | .32 AMP |
| | | | | 357.81 | 18.89 | 283.16 | 331.78 | 245.18 | 25.53 | 144.84 | 341.31 PHASE |
| | | | | 98.71 | 3.16 | 18.53 | 4.31 | 8.13 | 5.19 | 1.75 | .19 AMP |
| | | | | 357.78 | 2.73 | 192.26 | 318.52 | 233.84 | 5.62 | 163.89 | 3.64 PHASE |

TABLE VIII.- Continued

(a) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 16 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 448 | 4.68 | 5.52 | 688 | 3.19 | 2.19 | .82 | .51 | .47 | .58 | .61 | .31 | AMP |
| 441 | 2.45 | 5.24 | 688 | 293.37 | 111.97 | 61.38 | 381.21 | 114.52 | 162.85 | 282.52 | 334.29 | PHASE |
| 442 | .49 | 4.98 | 688 | 2.72 | 2.88 | .74 | .68 | .16 | .44 | .47 | .38 | AMP |
| 443 | -1.28 | 5.28 | 688 | 383.34 | 188.85 | 51.72 | 272.34 | 119.68 | 145.43 | 271.28 | 324.26 | PHASE |
| 444 | -3.59 | 6.55 | 688 | 2.58 | 1.94 | .73 | .78 | .85 | .43 | .52 | .39 | AMP |
| 445 | -6.15 | 7.48 | 688 | 317.45 | 94.84 | 47.84 | 249.85 | 348.41 | 138.31 | 295.86 | 338.37 | PHASE |
| 446 | -8.39 | 9.13 | 687 | 2.55 | 1.87 | .56 | 1.88 | .84 | .38 | .48 | .43 | AMP |
| 447 | -10.79 | 12.86 | 688 | 335.28 | 92.25 | 72.87 | 242.33 | 343.45 | 182.94 | 326.61 | 9.81 | PHASE |
| 448 | -12.49 | 13.82 | 688 | 3.12 | 2.88 | .58 | 1.68 | .21 | .29 | .61 | .62 | AMP |
| 449 | -13.43 | 15.37 | 688 | 352.24 | 86.57 | 114.32 | 236.32 | 215.88 | 282.41 | 353.11 | 26.36 | PHASE |
| 450 | 3.56 | 5.13 | 688 | 4.85 | 2.38 | .68 | 2.84 | .44 | .28 | .78 | .65 | AMP |
| 451 | 1.58 | 4.82 | 688 | 1.88 | 73.81 | 141.35 | 228.18 | 253.55 | 312.32 | 338.43 | 356.93 | PHASE |
| 452 | -.42 | 4.56 | 688 | 5.28 | 2.67 | 1.83 | 2.44 | .56 | .74 | 1.11 | .65 | AMP |
| 453 | -2.55 | 5.88 | 688 | 12.24 | 82.15 | 173.35 | 242.72 | 384.44 | 1.63 | 18.99 | 72.49 | PHASE |
| 454 | -5.85 | 6.84 | 689 | 8.86 | 3.21 | 1.53 | 2.97 | .69 | 1.16 | 1.28 | 1.19 | AMP |
| 455 | -7.67 | 9.59 | 688 | 9.94 | 71.62 | 176.87 | 226.83 | 385.91 | 352.74 | 1.85 | 57.67 | PHASE |
| 456 | -9.95 | 11.62 | 687 | 8.28 | 3.36 | 1.88 | 3.15 | .69 | 1.37 | 1.44 | 1.38 | AMP |
| 457 | -12.62 | 13.14 | 689 | 12.88 | 74.96 | 281.92 | 239.31 | 319.15 | 7.87 | 6.89 | 71.86 | PHASE |
| 458 | -14.27 | 15.29 | 688 | 9.86 | 3.59 | 2.87 | 3.22 | 1.81 | 1.66 | 1.73 | 1.69 | AMP |
| 459 | 2.69 | 4.81 | 688 | 18.83 | 72.52 | 283.38 | 239.25 | 333.11 | 4.84 | 357.56 | 58.32 | PHASE |
| 460 | 1.88 | 4.47 | 688 | 2.85 | 2.88 | .74 | .33 | .56 | .13 | .24 | .31 | AMP |
| 461 | -1.16 | 4.56 | 688 | 318.58 | 111.13 | 74.98 | 325.12 | 52.38 | 193.85 | 292.17 | 249.57 | PHASE |
| 462 | -2.99 | 5.33 | 688 | 2.61 | 2.88 | .72 | .26 | .45 | .22 | .22 | .12 | AMP |
| 463 | -5.21 | 7.28 | 688 | 322.87 | 183.35 | 79.93 | 291.34 | 46.27 | 146.59 | 381.81 | 28.58 | PHASE |
| 464 | -7.66 | 8.78 | 618 | 2.58 | 2.89 | .74 | .36 | .33 | .35 | .26 | .29 | AMP |
| 465 | -9.64 | 18.13 | 688 | 336.55 | 94.71 | 91.12 | 227.31 | 27.97 | 165.85 | 338.63 | 68.34 | PHASE |
| 466 | -11.84 | 11.94 | 688 | 2.91 | 2.21 | .79 | .78 | .44 | .33 | .54 | .64 | AMP |
| 467 | -13.17 | 14.48 | 688 | 349.73 | 85.54 | 112.88 | 216.55 | 351.88 | 283.14 | 328.61 | 47.63 | PHASE |
| 468 | 1.58 | 4.82 | 688 | 3.88 | 2.42 | .92 | 1.32 | .21 | .29 | .33 | .53 | AMP |
| 469 | 4.49 | 5.52 | 618 | 359.84 | 84.86 | 147.48 | 231.78 | 295.76 | 257.84 | 345.18 | 77.59 | PHASE |
| 470 | 5.85 | 6.84 | 688 | 5.13 | 2.76 | 1.88 | 2.83 | .31 | .89 | .23 | .35 | AMP |
| 471 | -4.52 | 4.59 | 688 | 5.44 | 86.93 | 183.19 | 248.23 | 318.18 | 24.58 | 22.93 | 139.27 | PHASE |
| 472 | -6.85 | 5.87 | 688 | 6.48 | 3.81 | 1.88 | 2.28 | .31 | .27 | .48 | .31 | AMP |
| 473 | -8.99 | 7.42 | 688 | 7.37 | 86.36 | 198.39 | 245.67 | 186.71 | 173.79 | 388.23 | 139.66 | PHASE |
| 474 | -11.37 | 9.85 | 688 | 8.28 | 3.22 | 2.88 | 2.46 | .43 | .26 | 1.11 | .19 | AMP |
| 475 | -13.42 | 11.13 | 687 | 7.58 | 81.76 | 216.86 | 258.48 | 176.26 | 321.58 | 323.81 | 223.18 | PHASE |
| 476 | -14.51 | 12.71 | 688 | 9.82 | 2.81 | 2.19 | 1.76 | .69 | 1.12 | 1.83 | .89 | AMP |
| 477 | 1.88 | 4.47 | 688 | 6.63 | 88.47 | 258.14 | 265.57 | 179.44 | 328.11 | 351.35 | 76.89 | PHASE |
| 478 | 4.49 | 5.52 | 618 | 2.76 | 1.96 | .68 | .59 | .56 | .39 | .56 | .83 | AMP |
| 479 | 5.85 | 6.84 | 688 | 294.94 | 99.71 | 52.18 | 282.25 | 182.85 | 146.79 | 384.58 | 341.57 | PHASE |
| 480 | -1.16 | 4.56 | 688 | 2.44 | 1.77 | .47 | .72 | .38 | .34 | .68 | .22 | AMP |
| 481 | -2.99 | 5.33 | 688 | 385.99 | 87.83 | 38.87 | 252.16 | 57.56 | 92.83 | 275.84 | 56.58 | PHASE |
| 482 | -5.21 | 7.28 | 688 | 2.38 | 1.63 | .35 | .96 | .31 | .27 | .72 | .59 | AMP |
| 483 | -7.66 | 8.78 | 618 | 338.82 | 82.34 | 68.74 | 233.16 | 2.17 | 84.27 | 385.28 | 67.31 | PHASE |
| 484 | -9.64 | 18.13 | 688 | 2.71 | 1.58 | .31 | 1.27 | .68 | .88 | .85 | .82 | AMP |
| 485 | -11.84 | 11.94 | 688 | 345.26 | 76.87 | 184.82 | 229.28 | 345.54 | 49.83 | 315.86 | 68.42 | PHASE |
| 486 | -13.17 | 14.48 | 688 | 3.43 | 1.79 | .49 | 1.74 | .87 | .52 | .93 | 1.38 | AMP |
| 487 | 1.88 | 4.47 | 688 | 2.84 | 75.13 | 154.72 | 237.18 | 327.88 | 4.19 | 341.46 | 63.34 | PHASE |
| 488 | 4.49 | 5.52 | 618 | 4.49 | 2.15 | .78 | 2.18 | 1.49 | .74 | 1.88 | 1.68 | AMP |
| 489 | 5.85 | 6.84 | 688 | 6.38 | 61.33 | 163.76 | 217.83 | 298.81 | 334.38 | 317.84 | 16.58 | PHASE |
| 490 | -1.16 | 4.56 | 688 | 5.56 | 2.41 | 1.11 | 2.45 | 1.86 | .97 | 1.89 | 1.72 | AMP |
| 491 | -2.99 | 5.33 | 688 | 14.79 | 66.85 | 186.85 | 232.28 | 321.49 | 354.93 | 349.62 | 48.18 | PHASE |
| 492 | -5.21 | 7.28 | 688 | 7.11 | 2.89 | 1.62 | 2.78 | 2.14 | 1.25 | 1.87 | 1.89 | AMP |
| 493 | -7.66 | 8.78 | 618 | 16.18 | 63.86 | 185.18 | 225.68 | 319.31 | 358.38 | 343.53 | 39.22 | PHASE |
| 494 | -9.64 | 18.13 | 688 | 8.44 | 3.33 | 2.13 | 2.95 | 2.34 | 1.78 | 1.27 | 2.22 | AMP |
| 495 | -11.84 | 11.94 | 688 | 14.78 | 61.61 | 185.19 | 218.14 | 318.37 | 356.64 | 339.24 | 22.88 | PHASE |
| 496 | -13.17 | 14.48 | 688 | 2.37 | 1.47 | .45 | .58 | .26 | .23 | .36 | .24 | AMP |
| 497 | 1.88 | 4.47 | 688 | 299.52 | 87.38 | 48.83 | 254.38 | 33.11 | 181.58 | 279.26 | 79.88 | PHASE |
| 498 | 4.49 | 5.52 | 618 | 2.17 | 1.28 | .32 | .65 | .24 | .26 | .39 | .36 | AMP |
| 499 | 5.85 | 6.84 | 688 | 317.32 | 81.86 | 48.16 | 244.34 | 351.84 | 76.45 | 283.18 | 73.34 | PHASE |
| 500 | -1.16 | 4.56 | 688 | 2.21 | 1.17 | .23 | .84 | .37 | .23 | .51 | .48 | AMP |
| 501 | -2.99 | 5.33 | 688 | 339.52 | 75.24 | 77.75 | 233.25 | 338.83 | 94.59 | 288.25 | 48.91 | PHASE |
| 502 | -5.21 | 7.28 | 688 | 2.68 | 1.26 | .31 | 1.11 | .47 | .27 | .46 | .63 | AMP |
| 503 | -7.66 | 8.78 | 618 | 368.88 | 75.48 | 139.11 | 244.13 | 328.55 | 43.95 | 325.83 | 66.31 | PHASE |
| 504 | -9.64 | 18.13 | 688 | 3.58 | 1.39 | .51 | 1.32 | .88 | .34 | .39 | .73 | AMP |
| 505 | -11.84 | 11.94 | 688 | 8.23 | 63.21 | 154.36 | 227.95 | 318.88 | 15.27 | 297.91 | 31.21 | PHASE |
| 506 | -13.17 | 14.48 | 688 | 4.56 | 1.61 | .73 | 1.47 | .97 | .37 | .38 | .78 | AMP |
| 507 | 1.88 | 4.47 | 688 | 13.88 | 59.31 | 172.13 | 221.99 | 388.67 | 1.17 | 263.78 | 17.26 | PHASE |
| 508 | 4.49 | 5.52 | 618 | 5.99 | 1.88 | .93 | 1.59 | 1.12 | .68 | .29 | .86 | AMP |
| 509 | 5.85 | 6.84 | 688 | 15.42 | 52.61 | 177.14 | 281.59 | 291.24 | 332.18 | 219.66 | 343.93 | PHASE |
| 510 | -1.16 | 4.56 | 688 | 7.68 | 2.88 | .23 | 1.81 | 1.21 | 1.84 | .22 | 1.86 | AMP |
| 511 | -2.99 | 5.33 | 688 | 19.94 | 56.19 | 198.95 | 283.45 | 292.49 | 337.43 | 384.89 | 5.84 | PHASE |
| 512 | -5.21 | 7.28 | 688 | 8.78 | 2.66 | 1.34 | 1.88 | 1.21 | 1.21 | .84 | 1.88 | AMP |
| 513 | -7.66 | 8.78 | 618 | 18.38 | 52.88 | 187.82 | 187.58 | 283.78 | 327.23 | 356.19 | 336.26 | PHASE |

TABLE VIII.- Continued

(a) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 44# | 25.59 | 15.17 | 6#8 | 6.96 | 5.56 | 4.67 | .81 | 1.5# | .24 | .12 | .37 |
| | | | | 148.53 | 284.18 | 62.18 | 282.97 | 111.71 | 283.43 | 265.4# | 171.31 |
| 441 | 27.34 | 14.39 | 6#8 | 7.44 | 5.13 | 4.27 | 1.89 | 1.25 | .22 | .89 | .28 |
| | | | | 147.92 | 278.82 | 43.81 | 278.81 | 88.84 | 287.67 | 218.65 | 143.55 |
| 442 | 29.84 | 14.26 | 6#8 | 7.94 | 4.78 | 3.92 | 1.3# | 1.42 | .17 | .25 | .14 |
| | | | | 147.75 | 277.8# | 26.83 | 267.82 | 86.17 | 268.69 | 182.38 | 135.8# |
| 443 | 38.52 | 14.85 | 6#8 | 8.22 | 4.48 | 4.84 | 1.44 | 1.19 | .29 | .23 | .31 |
| | | | | 151.99 | 288.84 | 21.48 | 274.72 | 113.9# | 284.77 | 225.66 | 149.76 |
| 444 | 32.38 | 14.11 | 6#8 | 8.84 | 4.12 | 4.38 | 1.97 | .69 | .37 | .15 | .43 |
| | | | | 153.27 | 283.5# | 8.82 | 268.34 | 151.83 | 298.83 | 222.25 | 178.12 |
| 445 | 34.33 | 14.39 | 6#8 | 8.97 | 4.89 | 4.28 | 2.18 | .24 | .25 | .32 | .36 |
| | | | | 158.68 | 276.24 | 346.96 | 245.56 | 187.54 | 251.29 | 188.52 | 148.26 |
| 446 | 35.84 | 15.68 | 6#7 | 9.85 | 3.73 | 4.45 | 2.52 | .54 | .19 | .31 | .25 |
| | | | | 156.47 | 293.24 | 355.62 | 265.68 | 167.7# | 247.48 | 231.38 | 246.49 |
| 447 | 37.58 | 16.21 | 6#8 | 9.87 | 3.47 | 4.52 | 3.83 | .91 | .27 | .27 | .38 |
| | | | | 158.27 | 293.45 | 338.72 | 248.92 | 162.8# | 189.93 | 282.16 | 228.33 |
| 448 | 38.78 | 15.82 | 6#8 | 8.87 | 3.65 | 4.37 | 3.58 | 1.32 | .58 | .31 | .57 |
| | | | | 158.24 | 383.51 | 321.28 | 245.88 | 189.25 | 195.7# | 281.84 | 258.52 |
| 449 | 39.36 | 16.84 | 6#8 | 8.99 | 3.68 | 4.25 | 3.62 | 1.4# | .7# | .36 | .62 |
| | | | | 147.2# | 311.81 | 316.24 | 237.46 | 184.11 | 195.87 | 182.14 | 215.75 |
| 45# | 25.93 | 15.44 | 6#8 | 8.1# | 5.91 | 3.77 | 1.23 | 1.33 | .26 | .17 | .17 |
| | | | | 147.71 | 294.74 | 73.58 | 292.81 | 182.98 | 325.26 | 283.23 | 331.43 |
| 451 | 27.65 | 15.17 | 6#8 | 8.61 | 5.76 | 3.56 | 1.41 | 1.85 | .18 | .13 | .87 |
| | | | | 147.6# | 287.79 | 59.47 | 283.54 | 92.18 | 323.74 | 238.87 | 288.9# |
| 452 | 29.22 | 15.51 | 6#8 | 8.9# | 5.65 | 3.45 | .71 | 1.1# | .25 | .23 | .2# |
| | | | | 148.51 | 282.41 | 45.81 | 266.14 | 96.61 | 258.52 | 218.11 | 168.36 |
| 453 | 38.81 | 15.44 | 6#8 | 9.29 | 5.38 | 3.31 | .75 | 1.81 | .31 | .19 | .44 |
| | | | | 148.71 | 276.86 | 34.62 | 256.57 | 94.86 | 263.14 | 211.65 | 183.44 |
| 454 | 32.59 | 15.1# | 6#9 | 9.51 | 5.15 | 3.23 | 1.26 | .79 | .28 | .17 | .44 |
| | | | | 152.8# | 279.65 | 38.12 | 249.43 | 152.72 | 232.91 | 289.73 | 238.4# |
| 455 | 34.37 | 14.1# | 6#8 | 9.54 | 4.82 | 2.92 | 1.99 | 1.11 | .46 | .26 | .53 |
| | | | | 153.69 | 282.53 | 28.94 | 253.53 | 283.79 | 234.84 | 266.19 | 298.88 |
| 456 | 36.81 | 14.87 | 6#7 | 9.51 | 4.68 | 2.62 | 1.65 | 1.48 | .58 | .24 | .67 |
| | | | | 151.25 | 288.11 | 357.88 | 246.48 | 213.26 | 218.1# | 253.17 | 382.4# |
| 457 | 37.9# | 14.47 | 6#9 | 9.41 | 4.63 | 3.16 | 3.72 | 2.38 | .76 | .21 | .74 |
| | | | | 147.98 | 288.21 | 316.21 | 247.55 | 223.68 | 288.69 | 198.86 | 322.11 |
| 458 | 38.6# | 15.83 | 6#8 | 9.46 | 5.31 | 3.86 | 4.84 | 2.6# | .92 | .37 | .64 |
| | | | | 146.69 | 298.28 | 381.88 | 258.83 | 224.87 | 281.15 | 176.48 | 261.35 |
| 459 | 27.54 | 13.89 | 6#8 | 6.77 | 4.3# | 4.67 | 1.36 | 1.85 | .27 | .83 | .19 |
| | | | | 146.76 | 285.91 | 46.65 | 291.87 | 123.8# | 5.92 | 222.53 | 238.38 |
| 46# | 29.16 | 13.61 | 6#8 | 7.15 | 4.83 | 4.61 | 1.63 | 1.98 | .23 | .85 | .48 |
| | | | | 143.93 | 278.81 | 21.67 | 266.21 | 88.98 | 338.93 | 183.89 | 197.14 |
| 461 | 31.8# | 13.68 | 6#8 | 7.72 | 3.78 | 4.73 | 1.75 | 1.75 | .31 | .11 | .68 |
| | | | | 147.34 | 278.24 | 7.38 | 268.55 | 81.95 | 259.66 | 191.42 | 198.77 |
| 462 | 32.56 | 15.17 | 6#8 | 8.33 | 3.89 | 4.89 | 1.79 | 1.56 | .49 | .16 | .76 |
| | | | | 147.8# | 282.14 | 357.47 | 254.72 | 68.54 | 265.97 | 218.79 | 171.8# |
| 463 | 34.28 | 15.36 | 6#8 | 8.65 | 2.71 | 5.38 | 2.83 | 1.41 | .6# | .16 | .89 |
| | | | | 152.92 | 287.18 | 358.58 | 257.78 | 42.18 | 287.84 | 289.92 | 185.87 |
| 464 | 36.22 | 15.82 | 61# | 8.92 | 2.88 | 5.24 | 2.29 | 2.85 | .7# | .31 | 1.85 |
| | | | | 149.39 | 279.77 | 338.86 | 236.36 | 7.68 | 255.8# | 196.77 | 134.76 |
| 465 | 37.83 | 16.68 | 6#8 | 9.11 | 1.62 | 5.18 | 2.39 | 2.46 | .68 | .22 | 1.82 |
| | | | | 153.87 | 388.14 | 344.32 | 247.98 | 29.48 | 278.48 | 214.86 | 162.36 |
| 466 | 39.64 | 17.83 | 6#8 | 9.38 | 1.19 | 5.24 | 2.54 | 2.58 | .72 | .17 | 1.86 |
| | | | | 158.58 | 331.49 | 333.31 | 234.8# | 21.28 | 252.41 | 173.27 | 151.17 |
| 467 | 48.51 | 16.54 | 6#8 | 9.19 | 1.42 | 4.86 | 2.79 | 1.97 | .92 | .22 | 1.86 |
| | | | | 146.71 | 345.23 | 328.25 | 215.89 | 13.94 | 217.81 | 144.26 | 148.34 |
| 468 | 29.14 | 18.37 | 6#8 | 6.29 | 2.67 | 3.58 | .82 | 1.26 | .21 | .85 | .31 |
| | | | | 142.63 | 281.78 | 21.82 | 263.91 | 76.22 | 382.89 | 177.37 | 197.39 |
| 469 | 38.77 | 18.69 | 6#8 | 6.89 | 2.58 | 3.67 | .92 | 1.28 | .18 | .12 | .37 |
| | | | | 143.48 | 283.42 | 9.85 | 261.35 | 65.87 | 248.68 | 181.63 | 185.69 |
| 47# | 32.44 | 11.91 | 6#8 | 7.43 | 2.39 | 3.95 | 1.8# | 1.18 | .31 | .16 | .43 |
| | | | | 145.57 | 288.98 | 358.14 | 253.44 | 56.26 | 234.91 | 178.94 | 165.41 |
| 471 | 34.13 | 11.96 | 6#8 | 7.92 | 2.88 | 4.19 | .95 | 1.86 | .32 | .13 | .47 |
| | | | | 158.82 | 381.58 | 4.87 | 262.98 | 48.99 | 272.56 | 177.95 | 182.67 |
| 472 | 36.85 | 12.74 | 6#8 | 8.31 | 1.8# | 4.48 | 1.83 | 1.46 | .31 | .17 | .61 |
| | | | | 149.12 | 386.81 | 347.74 | 243.25 | 9.51 | 239.37 | 288.48 | 147.98 |
| 473 | 37.81 | 13.92 | 6#8 | 8.74 | 1.58 | 4.61 | 1.22 | 1.79 | .34 | .28 | .62 |
| | | | | 149.89 | 323.95 | 338.39 | 231.39 | 4.67 | 234.82 | 248.85 | 138.87 |
| 474 | 39.85 | 15.14 | 6#8 | 9.12 | 1.46 | 4.87 | 1.39 | 1.97 | .37 | .13 | .67 |
| | | | | 147.84 | 344.22 | 318.63 | 218.12 | 348.23 | 197.31 | 263.42 | 85.34 |
| 475 | 41.63 | 16.54 | 6#7 | 9.41 | 1.79 | 5.11 | 1.83 | 2.88 | .44 | .16 | .84 |
| | | | | 149.81 | 12.55 | 314.85 | 218.8# | .15 | 281.85 | 114.18 | 185.64 |
| 476 | 42.44 | 17.31 | 6#8 | 9.44 | 1.92 | 5.16 | 2.13 | 2.88 | .62 | .26 | .92 |
| | | | | 145.62 | 16.49 | 299.32 | 193.24 | 345.75 | 181.54 | 118.89 | 88.49 |

TABLE VIII.- Continued

(a) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 16 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 448 | 34.48 | 11.92 | 688 | 4.98 | 1.88 | .19 | 1.23 | .31 | 3.59 | .72 | .24 |
| 441 | 32.18 | 15.87 | 688 | 253.65 | 73.16 | 187.84 | 49.38 | 213.13 | 239.28 | 276.75 | 231.63 |
| 442 | 38.38 | 22.74 | 688 | 5.91 | 2.37 | 1.18 | 1.88 | .41 | 5.48 | .61 | .18 |
| 443 | 28.81 | 28.98 | 688 | 266.86 | 91.26 | 273.65 | 4.27 | 189.82 | 246.59 | 328.84 | 172.55 |
| 444 | 27.28 | 38.47 | 688 | 8.72 | 3.28 | 2.75 | 1.54 | 1.53 | 8.82 | 2.21 | .29 |
| 445 | 24.28 | 58.52 | 688 | 274.94 | 188.94 | 261.53 | 336.72 | 168.84 | 297.78 | 327.76 | 184.82 |
| 446 | 21.23 | 64.38 | 687 | 15.87 | 5.95 | 3.15 | 2.66 | 2.88 | 6.96 | 4.12 | .56 |
| 447 | 17.64 | 78.43 | 688 | 24.59 | 8.49 | 4.62 | 3.29 | 2.88 | 354.83 | 359.78 | 134.72 |
| 448 | 14.98 | 88.83 | 688 | 315.75 | 185.36 | 228.99 | 325.93 | 283.54 | 4.39 | 5.44 | .66 |
| 449 | 14.44 | 91.73 | 688 | 34.46 | 18.27 | 9.29 | 5.17 | 2.48 | 68.96 | 48.52 | 165.96 |
| 450 | 27.75 | 17.93 | 688 | 332.29 | 188.67 | 283.62 | 387.68 | 11.74 | 3.23 | 3.86 | .27 |
| 451 | 26.39 | 21.41 | 688 | 44.64 | 11.82 | 12.68 | 7.24 | 2.82 | 26.66 | 247.41 | 234.89 |
| 452 | 24.81 | 38.52 | 688 | 345.47 | 118.84 | 228.67 | 321.63 | 98.78 | 3.72 | 5.67 | 1.18 |
| 453 | 22.63 | 37.56 | 688 | 55.68 | 11.82 | 15.81 | 18.79 | .95 | 54.82 | 319.43 | 268.98 |
| 454 | 19.89 | 44.68 | 689 | 345.22 | 98.84 | 221.22 | 299.62 | 12.16 | 5.97 | 5.97 | 1.15 |
| 455 | 16.87 | 61.69 | 688 | 63.48 | 18.64 | 17.28 | 12.85 | 1.58 | 283.55 | 221.59 | 195.44 |
| 456 | 12.63 | 72.57 | 687 | 352.52 | 186.17 | 229.73 | 385.97 | 312.44 | 8.29 | 4.58 | 3.66 |
| 457 | 18.41 | 82.53 | 689 | 66.15 | 9.66 | 17.82 | 11.92 | 2.88 | 6.55 | 3.74 | 4.13 |
| 458 | 7.69 | 91.65 | 688 | 358.98 | 185.99 | 227.82 | 383.65 | 58.18 | 8.39 | 276.88 | 216.24 |
| 459 | 25.42 | 18.22 | 688 | 8.58 | 2.78 | 1.58 | 1.28 | 1.63 | 2.33 | 1.15 | .77 |
| 460 | 25.84 | 22.65 | 688 | 262.81 | 91.86 | 239.89 | 79.84 | 268.44 | 254.89 | 68.86 | 238.41 |
| 461 | 24.52 | 25.66 | 688 | 11.68 | 3.38 | 3.31 | 1.89 | 1.92 | 4.88 | .69 | .15 |
| 462 | 24.82 | 29.99 | 688 | 278.75 | 188.84 | 266.89 | 53.89 | 248.11 | 288.19 | 19.54 | 121.55 |
| 463 | 22.49 | 48.48 | 688 | 16.21 | 5.57 | 3.66 | 1.81 | 1.89 | 8.58 | 2.17 | 1.36 |
| 464 | 28.79 | 56.79 | 618 | 286.61 | 97.82 | 279.39 | 15.58 | 256.34 | 336.98 | 345.92 | 135.36 |
| 465 | 18.68 | 69.21 | 688 | 22.46 | 8.79 | 2.24 | 2.19 | 2.38 | 8.87 | 3.34 | .93 |
| 466 | 16.52 | 82.84 | 688 | 385.84 | 98.17 | 249.86 | 335.84 | 277.83 | 2.87 | 28.43 | 177.33 |
| 467 | 15.84 | 92.56 | 688 | 38.63 | 11.28 | 4.32 | 3.13 | 2.16 | 5.62 | 1.91 | .25 |
| 468 | 24.52 | 14.44 | 688 | 323.87 | 188.17 | 228.11 | 344.31 | 348.88 | 36.88 | 185.93 | 257.78 |
| 469 | 24.98 | 15.22 | 688 | 41.95 | 12.78 | 9.34 | 5.27 | 1.99 | 5.83 | 3.34 | 2.21 |
| 470 | 24.74 | 19.88 | 688 | 339.18 | 111.91 | 232.85 | 327.16 | 57.57 | 64.64 | 271.83 | 334.83 |
| 471 | 24.64 | 38.18 | 688 | 58.68 | 13.89 | 12.56 | 7.53 | 1.85 | 2.58 | 5.82 | 1.77 |
| 472 | 23.83 | 43.78 | 688 | 344.18 | 189.78 | 235.49 | 315.88 | 126.25 | 292.59 | 247.78 | 315.54 |
| 473 | 22.29 | 56.88 | 688 | 61.81 | 14.24 | 14.72 | 18.63 | 1.58 | 7.16 | 6.38 | 3.28 |
| 474 | 28.46 | 68.87 | 688 | 345.34 | 185.99 | 231.28 | 387.38 | 241.78 | 319.58 | 268.88 | 388.12 |
| 475 | 17.68 | 87.63 | 687 | 69.89 | 14.89 | 15.14 | 18.41 | 4.38 | 12.85 | 5.84 | 5.21 |
| 476 | 16.46 | 95.38 | 688 | 358.53 | 189.79 | 248.89 | 389.64 | 235.93 | 338.59 | 234.98 | 277.79 |
| | | | | 3.91 | 1.67 | 1.21 | 1.22 | 2.69 | 8.36 | 1.71 | .24 |
| | | | | 271.42 | 91.49 | 293.43 | 28.21 | 188.26 | 269.68 | 22.85 | 223.68 |
| | | | | 5.86 | 2.51 | 2.18 | 1.55 | 3.27 | 18.75 | 2.51 | .61 |
| | | | | 278.86 | 95.86 | 275.17 | 343.52 | 68.17 | 252.23 | 322.44 | 148.49 |
| | | | | 9.89 | 4.78 | 3.66 | 2.18 | 2.28 | 11.47 | 4.21 | 2.18 |
| | | | | 295.12 | 98.68 | 253.89 | 327.34 | 349.68 | 295.81 | 328.88 | 135.81 |
| | | | | 16.58 | 6.28 | 4.12 | 3.27 | 3.16 | 4.28 | 4.39 | 2.63 |
| | | | | 388.15 | 98.99 | 224.93 | 323.25 | 319.27 | 348.58 | 341.86 | 147.46 |
| | | | | 25.25 | 7.35 | 7.41 | 4.69 | 5.79 | 1.53 | 1.11 | 3.44 |
| | | | | 338.57 | 184.83 | 215.87 | 339.65 | 358.89 | 189.88 | 178.88 | 145.52 |
| | | | | 36.62 | 7.88 | 12.16 | 5.67 | 5.34 | 1.88 | 5.86 | 3.48 |
| | | | | 338.88 | 89.98 | 286.84 | 389.46 | 345.58 | 88.37 | 218.44 | 185.47 |
| | | | | 46.17 | 6.71 | 15.14 | 7.16 | 4.17 | 1.88 | 6.87 | 3.76 |
| | | | | 347.28 | 91.88 | 223.25 | 328.13 | 11.65 | 113.84 | 276.95 | 135.37 |
| | | | | 68.61 | 6.84 | 17.47 | 8.73 | 4.25 | 3.28 | 5.98 | 4.41 |
| | | | | 348.98 | 76.21 | 221.94 | 315.33 | 353.52 | 76.76 | 288.32 | 124.42 |
| | | | | 65.92 | 6.87 | 18.23 | 9.88 | 3.63 | 5.37 | 5.84 | 5.56 |
| | | | | 351.53 | 71.84 | 217.44 | 385.81 | 383.95 | 3.43 | 246.89 | 118.59 |
| | | | | 2.96 | 1.22 | 1.88 | .84 | 3.81 | 4.57 | 1.31 | .95 |
| | | | | 288.14 | 184.29 | 272.29 | 13.89 | 37.18 | 255.48 | 337.34 | 159.81 |
| | | | | 4.73 | 2.16 | 2.91 | 1.48 | 2.38 | 6.16 | 1.51 | 1.33 |
| | | | | 297.85 | 185.65 | 261.66 | 2.34 | 2.47 | 272.99 | 338.31 | 134.97 |
| | | | | 9.38 | 3.75 | 3.31 | 2.25 | 2.98 | 6.87 | 2.13 | 1.54 |
| | | | | 113.71 | 181.43 | 229.25 | 347.64 | 317.85 | 318.56 | 4.95 | 148.59 |
| | | | | 17.68 | 4.53 | 5.84 | 3.17 | 4.27 | 1.55 | 2.23 | 1.78 |
| | | | | 332.19 | 112.13 | 216.11 | 3.75 | 344.96 | 386.14 | 113.93 | 149.53 |
| | | | | 27.21 | 4.26 | 9.28 | 4.18 | 4.43 | .69 | 2.47 | 1.81 |
| | | | | 339.24 | 184.78 | 287.88 | 347.51 | 342.54 | 28.89 | 197.69 | 113.27 |
| | | | | 38.59 | 3.11 | 12.85 | 4.74 | 3.34 | 3.66 | 3.59 | 2.43 |
| | | | | 346.18 | 96.29 | 218.53 | 336.96 | 342.28 | 83.47 | 258.61 | 83.56 |
| | | | | 52.12 | 2.48 | 15.78 | 6.81 | 2.56 | 5.44 | 3.12 | 3.81 |
| | | | | 347.81 | 71.65 | 284.68 | 318.55 | 287.45 | 43.87 | 284.24 | 51.36 |
| | | | | 67.85 | 2.63 | 18.86 | 6.93 | 7.88 | 7.65 | 2.18 | 3.81 |
| | | | | 354.68 | 54.13 | 216.76 | 329.55 | 266.68 | 29.84 | 137.32 | 78.88 |
| | | | | 73.84 | 2.44 | 17.45 | 6.66 | 8.73 | 8.15 | 4.87 | 3.45 |
| | | | | 354.53 | 44.52 | 286.88 | 314.25 | 258.87 | 9.46 | 153.99 | 59.88 |

TABLE VIII.- Continued

(a) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|-------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 16 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 448 | 4.35 | 5.16 | 608 | 3.15 | 2.21 | .74 | .42 | .41 | .49 | .46 | .23 | AMP |
| | | | | 286.83 | 96.67 | 36.98 | 273.65 | 77.58 | 118.64 | 235.96 | 291.88 | PHASE |
| 441 | 2.23 | 4.98 | 608 | 2.67 | 2.11 | .68 | .59 | .13 | .39 | .37 | .27 | AMP |
| | | | | 297.84 | 85.51 | 29.58 | 245.82 | 83.45 | 99.45 | 228.91 | 278.41 | PHASE |
| 442 | .29 | 4.58 | 608 | 2.45 | 1.95 | .68 | .66 | .86 | .37 | .41 | .29 | AMP |
| | | | | 318.95 | 88.11 | 25.55 | 222.74 | 317.83 | 92.15 | 252.19 | 284.38 | PHASE |
| 443 | -1.48 | 4.67 | 608 | 2.58 | 1.87 | .52 | .86 | .86 | .32 | .38 | .34 | AMP |
| | | | | 328.68 | 79.18 | 52.36 | 214.58 | 388.61 | 134.45 | 279.74 | 323.89 | PHASE |
| 444 | -3.69 | 5.52 | 608 | 3.88 | 1.98 | .47 | 1.37 | .17 | .23 | .58 | .47 | AMP |
| | | | | 346.28 | 74.35 | 91.47 | 288.34 | 182.67 | 235.74 | 385.48 | 336.84 | PHASE |
| 445 | -6.28 | 6.54 | 608 | 3.77 | 2.85 | .57 | 1.77 | .41 | .25 | .66 | .48 | AMP |
| | | | | 356.86 | 61.31 | 112.37 | 198.72 | 215.71 | 263.47 | 283.92 | 385.29 | PHASE |
| 446 | -8.36 | 8.12 | 607 | 4.79 | 2.33 | .88 | 2.13 | .53 | .66 | .98 | .49 | AMP |
| | | | | 7.47 | 67.95 | 145.52 | 213.34 | 265.44 | 318.14 | 332.85 | 19.93 | PHASE |
| 447 | -18.63 | 18.63 | 608 | 6.17 | 2.75 | 1.34 | 2.68 | .65 | .98 | 1.83 | .85 | AMP |
| | | | | 4.75 | 57.88 | 149.64 | 196.77 | 267.19 | 311.42 | 316.46 | 6.54 | PHASE |
| 448 | -12.25 | 11.93 | 608 | 7.38 | 2.89 | 1.53 | 2.79 | .69 | 1.13 | 1.15 | .93 | AMP |
| | | | | 6.65 | 61.85 | 173.95 | 289.28 | 282.62 | 326.28 | 319.48 | 18.89 | PHASE |
| 449 | -13.18 | 13.21 | 608 | 8.12 | 3.13 | 1.73 | 2.85 | .96 | 1.36 | 1.36 | 1.22 | AMP |
| | | | | 5.28 | 58.86 | 174.89 | 289.81 | 294.58 | 321.96 | 318.22 | 359.85 | PHASE |
| 458 | 3.22 | 4.95 | 608 | 2.84 | 2.21 | .65 | .28 | .48 | .14 | .28 | .28 | AMP |
| | | | | 382.95 | 97.68 | 49.77 | 297.97 | 28.16 | 129.43 | 261.16 | 284.98 | PHASE |
| 451 | 1.28 | 4.53 | 608 | 2.56 | 2.87 | .62 | .21 | .38 | .38 | .17 | .25 | AMP |
| | | | | 313.92 | 89.99 | 52.86 | 263.13 | 15.27 | 97.51 | 265.71 | 342.89 | PHASE |
| 452 | -7.78 | 4.19 | 608 | 2.37 | 2.83 | .61 | .38 | .27 | .38 | .22 | .25 | AMP |
| | | | | 328.58 | 81.57 | 63.44 | 195.33 | 358.26 | 119.99 | 284.98 | 359.61 | PHASE |
| 453 | -2.74 | 4.58 | 608 | 2.71 | 2.89 | .65 | .59 | .29 | .38 | .29 | .44 | AMP |
| | | | | 342.79 | 72.25 | 87.55 | 185.83 | 319.26 | 159.81 | 273.83 | 355.32 | PHASE |
| 454 | -5.89 | 5.72 | 609 | 3.42 | 2.15 | .73 | 1.14 | .19 | .26 | .32 | .39 | AMP |
| | | | | 353.83 | 78.52 | 122.81 | 288.19 | 248.23 | 219.83 | 382.45 | 24.83 | PHASE |
| 455 | -7.63 | 8.87 | 608 | 4.52 | 2.31 | 1.89 | 1.83 | .31 | .13 | .24 | .21 | AMP |
| | | | | 359.37 | 78.88 | 168.54 | 217.57 | 278.66 | 323.68 | 337.59 | 85.69 | PHASE |
| 456 | -9.88 | 9.29 | 607 | 5.51 | 2.48 | 1.58 | 2.85 | .24 | .18 | .32 | .16 | AMP |
| | | | | 1.91 | 69.34 | 175.75 | 214.37 | 169.12 | 133.81 | 257.98 | 86.48 | PHASE |
| 457 | -12.29 | 18.78 | 609 | 7.18 | 2.69 | 1.64 | 2.23 | .88 | .23 | .89 | 1.8 | AMP |
| | | | | 2.13 | 64.95 | 198.97 | 218.99 | 154.61 | 284.88 | 278.82 | 285.27 | PHASE |
| 458 | -13.88 | 12.31 | 608 | 8.58 | 2.31 | 1.73 | 1.64 | .46 | .93 | 1.51 | .78 | AMP |
| | | | | .85 | 68.97 | 227.92 | 234.18 | 149.41 | 286.66 | 384.17 | 28.99 | PHASE |
| 459 | 2.47 | 4.48 | 608 | 2.73 | 2.88 | .59 | .52 | .58 | .36 | .41 | .81 | AMP |
| | | | | 288.83 | 85.84 | 32.42 | 253.63 | 78.82 | 182.87 | 263.21 | 334.25 | PHASE |
| 468 | .79 | 4.16 | 608 | 2.39 | 1.81 | .46 | .63 | .34 | .33 | .43 | .16 | AMP |
| | | | | 299.56 | 73.98 | 28.22 | 222.25 | 26.47 | 51.56 | 234.54 | 15.67 | PHASE |
| 461 | -1.33 | 4.23 | 608 | 2.33 | 1.65 | .35 | .84 | .24 | .28 | .57 | .45 | AMP |
| | | | | 323.92 | 69.64 | 43.45 | 282.82 | 329.42 | 45.17 | 263.57 | 21.32 | PHASE |
| 462 | -3.89 | 4.66 | 608 | 2.66 | 1.55 | .33 | 1.11 | .49 | .12 | .78 | .61 | AMP |
| | | | | 339.38 | 65.88 | 83.98 | 288.54 | 318.85 | 36.64 | 278.82 | 12.37 | PHASE |
| 463 | -5.38 | 6.37 | 608 | 3.34 | 1.67 | .47 | 1.54 | .75 | .42 | .81 | .95 | AMP |
| | | | | 356.88 | 64.76 | 129.74 | 288.25 | 298.72 | 332.85 | 295.95 | 13.97 | PHASE |
| 464 | -7.71 | 7.79 | 618 | 4.26 | 1.92 | .72 | 1.91 | 1.28 | .62 | .82 | 1.15 | AMP |
| | | | | 1.52 | 49.62 | 137.51 | 187.49 | 263.87 | 298.52 | 278.49 | 326.33 | PHASE |
| 465 | -9.64 | 8.95 | 608 | 5.21 | 2.12 | 1.82 | 2.13 | 1.62 | .88 | .91 | 1.24 | AMP |
| | | | | 9.92 | 55.81 | 168.32 | 282.57 | 285.65 | 319.56 | 382.88 | 357.76 | PHASE |
| 466 | -11.77 | 18.52 | 608 | 6.57 | 2.58 | 1.47 | 2.41 | 1.89 | 1.85 | .92 | 1.34 | AMP |
| | | | | 18.91 | 52.56 | 159.45 | 196.81 | 283.57 | 322.81 | 296.38 | 348.97 | PHASE |
| 467 | -13.84 | 12.28 | 608 | 7.73 | 2.89 | 1.89 | 2.55 | 2.86 | 1.58 | 1.84 | 1.56 | AMP |
| | | | | 9.48 | 49.82 | 157.95 | 188.85 | 283.13 | 318.89 | 298.71 | 331.31 | PHASE |
| 468 | 1.29 | 3.53 | 608 | 2.33 | 1.52 | .43 | 1.49 | .23 | .23 | .26 | .28 | AMP |
| | | | | 293.51 | 74.25 | 29.75 | 224.59 | 359.69 | 68.67 | 239.82 | 33.86 | PHASE |
| 469 | -.48 | 3.43 | 608 | 2.12 | 1.31 | .38 | 2.14 | .25 | .24 | .38 | .28 | AMP |
| | | | | 311.61 | 69.15 | 29.88 | 214.25 | 318.35 | 39.62 | 241.13 | 26.85 | PHASE |
| 478 | -2.53 | 3.56 | 608 | 2.28 | 1.21 | .24 | .77 | .32 | .24 | .48 | .37 | AMP |
| | | | | 334.28 | 64.48 | 62.59 | 284.87 | 383.86 | 53.87 | 242.95 | 358.87 | PHASE |
| 471 | -4.59 | 4.16 | 608 | 2.65 | 1.23 | .31 | .99 | .48 | .24 | .39 | .48 | AMP |
| | | | | 354.71 | 65.94 | 112.81 | 214.11 | 292.88 | 13.26 | 288.63 | 16.88 | PHASE |
| 472 | -6.87 | 5.44 | 608 | 3.43 | 1.29 | .46 | 1.17 | .65 | .32 | .33 | .54 | AMP |
| | | | | 3.16 | 52.82 | 125.65 | 199.66 | 275.82 | 336.42 | 251.11 | 342.49 | PHASE |
| 473 | -8.91 | 6.57 | 608 | 4.31 | 1.46 | .66 | 1.32 | .84 | .34 | .27 | .55 | AMP |
| | | | | 8.47 | 46.92 | 144.55 | 192.52 | 273.21 | 328.43 | 216.43 | 328.78 | PHASE |
| 474 | -11.21 | 7.91 | 608 | 5.47 | 1.65 | .84 | 1.44 | .98 | .48 | .25 | .62 | AMP |
| | | | | 9.59 | 39.86 | 143.37 | 173.69 | 258.85 | 388.29 | 188.42 | 294.18 | PHASE |
| 475 | -13.23 | 9.78 | 607 | 6.88 | 2.88 | 1.12 | 1.61 | .87 | .83 | .23 | .79 | AMP |
| | | | | 14.81 | 43.71 | 158.58 | 174.87 | 261.54 | 382.72 | 258.39 | 316.19 | PHASE |
| 476 | -14.22 | 11.83 | 608 | 7.77 | 2.34 | 1.21 | 1.68 | .88 | .97 | .88 | .79 | AMP |
| | | | | 12.18 | 39.79 | 154.27 | 159.12 | 253.15 | 298.98 | 232.83 | 287.77 | PHASE |

TABLE VIII.- Continued

(a) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 448 | 7.87 | 21.23 | 688 | 18.43 129.56 | 8.94 278.12 | 5.12 53.82 | .81 318.22 | 1.37 268.83 | .18 31.81 | .73 2.71 | 1.22 166.39 |
| 441 | 9.85 | 28.21 | 688 | 18.46 131.66 | 8.51 272.38 | 4.84 32.36 | .92 298.41 | 1.16 253.88 | .14 78.41 | .49 357.84 | .95 124.87 |
| 442 | 11.76 | 19.18 | 688 | 18.72 134.81 | 8.82 269.55 | 4.72 14.27 | 1.85 296.72 | 1.14 252.38 | .13 41.96 | .25 9.54 | .88 118.71 |
| 443 | 13.49 | 18.86 | 688 | 11.12 148.63 | 7.58 273.15 | 5.15 12.85 | 1.23 389.76 | 1.82 266.92 | .28 59.11 | .21 78.26 | 1.87 141.44 |
| 444 | 15.77 | 19.55 | 688 | 11.84 144.42 | 7.18 274.93 | 6.87 2.86 | 1.18 311.98 | .79 287.11 | .48 67.49 | .34 88.83 | 1.17 159.88 |
| 445 | 17.93 | 19.22 | 688 | 12.33 145.68 | 7.84 266.34 | 6.42 344.88 | 1.12 289.81 | .85 262.36 | .39 12.93 | .17 188.37 | .96 158.41 |
| 446 | 28.88 | 19.55 | 687 | 13.84 153.62 | 6.42 278.96 | 6.63 357.78 | 1.17 316.15 | 1.82 315.68 | .64 53.18 | .38 79.71 | .98 258.85 |
| 447 | 22.26 | 28.65 | 688 | 13.73 158.18 | 6.88 274.15 | 6.88 339.58 | 1.12 389.81 | 1.82 312.88 | .71 25.95 | .16 18.84 | 1.93 224.43 |
| 448 | 23.64 | 21.79 | 688 | 14.83 153.85 | 5.97 282.87 | 6.35 337.94 | 1.81 317.97 | 1.88 348.41 | .72 29.15 | .33 343.88 | 2.48 246.19 |
| 449 | 24.33 | 21.58 | 688 | 14.25 151.68 | 5.84 286.94 | 6.28 335.43 | .92 314.74 | .89 332.44 | .78 24.26 | .21 348.65 | 2.75 221.88 |
| 450 | 7.73 | 28.58 | 688 | 11.11 133.74 | 9.17 289.73 | 4.32 61.64 | .77 324.82 | 1.85 274.65 | .21 98.87 | .63 36.68 | .62 343.51 |
| 451 | 9.58 | 28.68 | 688 | 11.22 136.38 | 9.82 281.89 | 4.35 45.92 | .87 316.43 | .98 268.29 | .17 85.52 | .38 24.88 | .33 178.48 |
| 452 | 11.42 | 28.61 | 688 | 11.47 139.37 | 8.84 276.83 | 4.43 32.87 | .98 311.96 | .95 262.18 | .89 61.84 | .86 292.92 | .98 178.27 |
| 453 | 13.39 | 28.49 | 688 | 12.83 141.27 | 8.53 269.26 | 4.38 28.92 | .86 299.94 | .97 249.55 | .88 51.81 | .23 278.66 | 1.37 186.19 |
| 454 | 15.78 | 28.93 | 689 | 12.74 145.84 | 8.28 271.36 | 4.63 19.83 | .87 299.82 | .89 279.95 | .33 343.38 | .43 331.66 | 1.31 221.98 |
| 455 | 18.13 | 28.29 | 688 | 13.45 149.15 | 7.74 272.74 | 4.99 15.51 | .81 319.26 | .92 324.31 | .64 3.17 | .61 357.32 | .62 289.88 |
| 456 | 28.18 | 28.54 | 687 | 13.78 149.47 | 7.78 271.72 | 5.33 1.44 | 1.18 323.45 | 1.17 337.55 | 1.14 349.12 | .89 353.22 | .81 295.86 |
| 457 | 22.48 | 28.38 | 689 | 14.83 149.91 | 7.61 276.67 | 5.39 341.15 | 1.15 319.24 | 1.35 351.53 | 1.31 356.37 | .89 24.29 | .88 318.15 |
| 458 | 23.46 | 21.38 | 688 | 14.94 158.85 | 7.92 283.49 | 4.96 329.71 | 1.18 386.62 | 1.36 348.99 | 1.23 349.86 | .33 356.41 | .33 251.38 |
| 459 | 18.59 | 18.89 | 688 | 9.78 131.66 | 7.88 279.84 | 5.33 36.24 | .94 388.41 | 1.55 285.12 | .39 158.88 | 1.84 57.73 | .71 236.69 |
| 460 | 12.39 | 18.96 | 688 | 18.88 131.92 | 6.88 269.48 | 5.53 11.82 | 1.84 288.84 | 1.58 256.81 | .45 119.63 | 1.81 16.98 | 1.69 191.12 |
| 461 | 14.57 | 19.89 | 688 | 18.45 137.88 | 6.54 267.87 | 5.86 359.34 | 1.11 293.74 | 1.23 248.18 | .56 96.56 | .88 12.98 | 1.69 186.65 |
| 462 | 16.45 | 18.52 | 688 | 11.86 141.28 | 5.89 269.55 | 6.36 351.85 | 1.82 293.82 | 1.11 237.22 | .86 89.59 | .53 359.28 | 2.73 177.83 |
| 463 | 18.61 | 21.16 | 688 | 11.71 148.21 | 5.45 273.51 | 7.34 355.42 | .94 388.28 | .86 225.41 | 1.18 96.22 | .38 25.88 | 3.43 186.38 |
| 464 | 28.95 | 22.83 | 618 | 12.41 147.52 | 4.95 263.19 | 7.53 337.61 | .93 292.13 | .89 192.48 | 1.39 62.82 | .84 136.17 | 3.75 139.18 |
| 465 | 22.98 | 23.91 | 688 | 13.18 154.17 | 4.44 271.41 | 7.54 348.18 | .89 312.47 | .82 214.33 | 1.56 84.95 | .12 172.41 | 3.76 169.88 |
| 466 | 25.31 | 24.94 | 688 | 14.81 154.51 | 3.54 278.44 | 7.56 341.21 | .86 318.88 | .67 285.77 | 1.72 71.15 | .19 227.36 | 4.89 168.73 |
| 467 | 26.35 | 24.68 | 688 | 14.28 152.83 | 3.14 269.29 | 6.96 331.75 | .68 295.77 | .39 282.26 | 1.63 58.44 | .29 171.89 | 4.35 144.82 |
| 468 | 13.82 | 14.62 | 688 | 8.72 134.28 | 4.74 273.46 | 4.17 18.11 | .65 291.36 | 1.88 248.67 | .28 184.65 | .54 5.42 | 1.28 185.94 |
| 469 | 14.89 | 14.72 | 688 | 9.21 137.55 | 4.55 271.26 | 4.55 359.83 | .69 289.88 | .26 236.79 | .44 93.87 | .44 349.38 | 1.45 174.81 |
| 470 | 16.77 | 15.47 | 688 | 9.78 141.57 | 4.43 271.71 | 5.13 349.71 | .72 284.35 | .84 224.85 | .48 75.38 | .29 333.77 | 1.56 168.49 |
| 471 | 18.82 | 17.82 | 688 | 18.35 149.58 | 4.11 288.85 | 5.79 357.67 | .63 299.13 | .71 227.58 | .43 98.33 | .16 12.67 | 1.79 181.27 |
| 472 | 21.18 | 18.91 | 688 | 11.88 158.87 | 3.77 277.64 | 6.49 343.66 | .68 288.48 | .71 194.58 | .58 58.88 | .22 247.59 | 2.82 144.95 |
| 473 | 23.14 | 28.77 | 688 | 12.82 153.82 | 3.34 281.16 | 6.78 339.38 | .72 291.68 | .71 187.54 | .61 49.97 | .46 245.36 | 2.18 131.11 |
| 474 | 25.62 | 22.21 | 688 | 12.95 153.87 | 2.65 281.12 | 6.74 325.87 | .73 289.49 | .64 168.25 | .75 25.37 | .68 234.16 | 2.13 94.89 |
| 475 | 27.85 | 23.46 | 687 | 13.99 157.27 | 2.36 292.41 | 6.52 325.38 | .88 381.37 | .63 148.23 | .98 38.59 | .81 244.84 | 2.52 188.93 |
| 476 | 28.83 | 24.83 | 688 | 14.35 155.63 | 2.18 288.71 | 6.27 318.89 | .88 289.15 | .78 128.86 | 1.85 17.61 | 1.13 218.17 | 2.71 81.87 |

TABLE VIII.- Continued

(a) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 440 | 11.24 | 13.48 | 600 | 5.40 | 2.59 | .84 | 1.41 | .42 | 3.81 | .53 | .50 AMP |
| 441 | 9.63 | 17.00 | 600 | 265.52 | 73.57 | 213.91 | 56.69 | 263.06 | 243.62 | 280.64 | 287.78 PHASE |
| 442 | 8.52 | 22.75 | 600 | 6.61 | 3.10 | 1.27 | 1.24 | .39 | 5.75 | .49 | .46 AMP |
| 443 | 7.57 | 29.03 | 600 | 273.42 | 88.68 | 253.06 | 15.91 | 207.41 | 250.25 | 352.93 | 165.37 PHASE |
| 444 | 6.12 | 35.65 | 600 | 8.90 | 4.04 | 2.50 | 1.67 | 1.44 | 8.58 | 1.94 | .39 AMP |
| 445 | 3.71 | 45.81 | 600 | 279.88 | 98.30 | 258.71 | 349.89 | 172.37 | 301.11 | 333.63 | 105.01 PHASE |
| 446 | 1.02 | 56.06 | 600 | 13.52 | 6.12 | 3.00 | 2.88 | 1.85 | 7.47 | 4.45 | 1.01 AMP |
| 447 | -2.54 | 69.29 | 600 | 297.28 | 102.79 | 255.95 | 338.81 | 248.86 | 357.95 | 3.99 | 146.01 PHASE |
| 448 | -5.02 | 75.13 | 600 | 20.16 | 8.09 | 4.27 | 4.64 | 1.93 | 4.94 | 6.29 | 1.18 AMP |
| 449 | -5.44 | 78.44 | 600 | 314.05 | 106.17 | 233.16 | 335.07 | 286.27 | 72.78 | 46.44 | 165.06 PHASE |
| 450 | 8.02 | 18.58 | 600 | 27.07 | 9.96 | 7.99 | 5.72 | 2.57 | 3.74 | 3.35 | .42 AMP |
| 451 | 6.96 | 21.26 | 600 | 327.97 | 100.34 | 213.03 | 314.33 | 10.41 | 33.74 | 239.32 | 193.17 PHASE |
| 452 | 5.97 | 28.63 | 600 | 34.65 | 11.09 | 11.19 | 7.00 | 1.81 | 4.16 | 6.15 | 1.30 AMP |
| 453 | 4.34 | 35.95 | 600 | 341.47 | 109.81 | 235.45 | 327.43 | 83.78 | 62.59 | 319.49 | 273.55 PHASE |
| 454 | 2.02 | 41.50 | 600 | 42.97 | 11.51 | 14.45 | 11.41 | 1.09 | 3.29 | 6.50 | 1.29 AMP |
| 455 | -1.53 | 54.50 | 600 | 341.50 | 99.53 | 226.91 | 302.95 | 346.12 | 26.84 | 286.63 | 223.44 PHASE |
| 456 | -4.67 | 63.53 | 600 | 40.61 | 11.44 | 16.26 | 12.96 | 1.96 | 8.37 | 4.72 | 4.44 AMP |
| 457 | -7.58 | 72.59 | 600 | 348.70 | 107.51 | 234.77 | 307.70 | 309.30 | 355.03 | 282.38 | 248.23 PHASE |
| 458 | -10.06 | 77.48 | 600 | 50.53 | 10.48 | 16.81 | 13.00 | .27 | 6.47 | 4.16 | 4.08 AMP |
| 459 | 4.69 | 20.11 | 600 | 347.31 | 100.46 | 232.73 | 305.98 | 309.00 | 14.82 | 281.14 | 223.57 PHASE |
| 460 | 4.02 | 24.75 | 600 | 8.52 | 3.33 | 1.71 | 1.40 | 1.91 | 2.34 | 1.30 | .07 AMP |
| 461 | 3.32 | 27.06 | 600 | 269.02 | 94.56 | 235.39 | 83.99 | 263.02 | 257.24 | 78.30 | 248.17 PHASE |
| 462 | 2.81 | 29.67 | 600 | 274.04 | 99.76 | 261.03 | 63.07 | 244.70 | 284.65 | 40.55 | 148.32 PHASE |
| 463 | 1.47 | 38.27 | 600 | 14.34 | 6.11 | 3.17 | 1.17 | 1.91 | 9.21 | 2.29 | 1.00 AMP |
| 464 | -.37 | 49.30 | 610 | 287.41 | 100.30 | 276.29 | 29.34 | 259.37 | 340.97 | 349.30 | 139.66 PHASE |
| 465 | -2.62 | 58.72 | 600 | 18.62 | 8.62 | 2.19 | 2.32 | 2.12 | 9.86 | 3.90 | 1.54 AMP |
| 466 | -5.31 | 69.89 | 600 | 303.02 | 99.81 | 249.62 | 347.14 | 274.01 | 24.17 | 26.62 | 186.75 PHASE |
| 467 | -6.77 | 74.31 | 600 | 24.46 | 10.91 | 3.83 | 3.10 | 2.05 | 6.35 | 2.07 | .87 AMP |
| 468 | 3.58 | 14.21 | 600 | 320.49 | 107.30 | 227.24 | 349.52 | 339.55 | 40.69 | 112.20 | 258.17 PHASE |
| 469 | 3.05 | 17.73 | 600 | 32.76 | 12.72 | 8.46 | 5.54 | 1.98 | 5.77 | 3.98 | 3.49 AMP |
| 470 | 2.55 | 19.74 | 600 | 335.62 | 110.91 | 236.56 | 327.71 | 38.00 | 64.84 | 272.85 | 333.78 PHASE |
| 471 | 2.07 | 27.88 | 600 | 39.21 | 14.15 | 11.67 | 8.09 | .34 | 2.67 | 5.69 | 2.75 AMP |
| 472 | .90 | 37.65 | 600 | 340.91 | 109.37 | 238.68 | 315.83 | 32.05 | 306.77 | 251.32 | 323.12 PHASE |
| 473 | -.88 | 49.39 | 600 | 48.00 | 14.82 | 14.44 | 12.20 | 2.68 | 8.28 | 6.72 | 4.24 AMP |
| 474 | -3.13 | 56.94 | 600 | 342.02 | 106.59 | 236.29 | 307.39 | 287.25 | 326.68 | 266.29 | 322.86 PHASE |
| 475 | -6.18 | 70.71 | 600 | 54.16 | 14.40 | 15.12 | 12.50 | 4.85 | 14.43 | 5.83 | 5.97 AMP |
| 476 | -7.51 | 78.31 | 600 | 347.38 | 109.27 | 245.62 | 310.20 | 258.82 | 333.33 | 242.46 | 285.72 PHASE |
| 477 | | | | 4.48 | 2.02 | 1.16 | 1.41 | 2.28 | 8.84 | 1.92 | .35 AMP |
| 478 | | | | 281.63 | 92.54 | 277.02 | 29.32 | 110.42 | 272.49 | 33.06 | 255.07 PHASE |
| 479 | | | | 5.76 | 2.09 | 2.04 | 1.77 | 3.01 | 11.45 | 2.74 | .92 AMP |
| 480 | | | | 204.05 | 94.73 | 270.69 | 354.45 | 70.73 | 254.71 | 332.52 | 178.95 PHASE |
| 481 | | | | 0.99 | 4.68 | 3.48 | 2.50 | 1.97 | 12.25 | 4.59 | 2.70 AMP |
| 482 | | | | 296.64 | 90.64 | 255.91 | 330.50 | 355.72 | 297.25 | 325.41 | 149.91 PHASE |
| 483 | | | | 14.44 | 5.93 | 3.90 | 3.74 | 2.72 | 4.71 | 4.97 | 3.66 AMP |
| 484 | | | | 307.26 | 100.27 | 237.16 | 333.83 | 325.03 | 343.17 | 346.44 | 156.95 PHASE |
| 485 | | | | 20.68 | 6.98 | 6.44 | 5.31 | 5.46 | 1.60 | 1.61 | 4.79 AMP |
| 486 | | | | 326.92 | 105.00 | 229.10 | 345.10 | 357.58 | 107.94 | 162.61 | 155.93 PHASE |
| 487 | | | | 28.74 | 7.24 | 10.50 | 6.57 | 5.56 | 1.33 | 6.02 | 4.99 AMP |
| 488 | | | | 334.00 | 93.19 | 217.32 | 316.35 | 355.62 | 84.59 | 217.51 | 114.19 PHASE |
| 489 | | | | 35.00 | 7.22 | 13.29 | 8.06 | 4.76 | 2.23 | 6.91 | 5.61 AMP |
| 490 | | | | 343.53 | 96.26 | 232.67 | 327.46 | 24.05 | 109.32 | 277.55 | 142.55 PHASE |
| 491 | | | | 45.24 | 7.42 | 15.56 | 9.71 | 4.98 | 3.99 | 7.74 | 6.58 AMP |
| 492 | | | | 345.52 | 85.16 | 230.90 | 321.53 | 9.91 | 76.89 | 283.14 | 130.74 PHASE |
| 493 | | | | 50.20 | 7.55 | 16.45 | 10.05 | 3.54 | 6.01 | 5.67 | 8.00 AMP |
| 494 | | | | 347.91 | 80.40 | 225.00 | 310.00 | 328.10 | 9.14 | 251.90 | 121.07 PHASE |
| 495 | | | | 3.65 | 1.31 | 1.60 | 1.12 | 2.71 | 4.82 | 1.46 | 1.26 AMP |
| 496 | | | | 296.02 | 105.52 | 271.11 | 23.46 | 37.99 | 250.00 | 344.62 | 173.25 PHASE |
| 497 | | | | 5.30 | 2.21 | 2.67 | 1.75 | 2.18 | 6.60 | 1.67 | 1.74 AMP |
| 498 | | | | 300.62 | 107.21 | 264.32 | 9.66 | 5.26 | 275.47 | 339.15 | 149.51 PHASE |
| 499 | | | | 8.09 | 3.50 | 3.02 | 2.65 | 2.65 | 6.54 | 2.49 | 2.00 AMP |
| 500 | | | | 312.33 | 103.61 | 240.07 | 355.61 | 321.73 | 312.95 | 12.01 | 150.29 PHASE |
| 501 | | | | 14.95 | 4.20 | 6.05 | 3.61 | 3.99 | 1.69 | 2.93 | 2.40 AMP |
| 502 | | | | 320.06 | 114.20 | 229.13 | 9.39 | 349.20 | 300.66 | 117.92 | 159.60 PHASE |
| 503 | | | | 21.92 | 4.37 | 7.70 | 4.69 | 4.47 | .83 | 3.11 | 2.61 AMP |
| 504 | | | | 335.62 | 107.15 | 210.65 | 351.00 | 348.32 | 26.79 | 196.15 | 126.27 PHASE |
| 505 | | | | 30.22 | 3.00 | 10.89 | 5.55 | 3.77 | 3.50 | 4.27 | 3.27 AMP |
| 506 | | | | 342.02 | 101.00 | 220.20 | 341.37 | 353.28 | 84.20 | 257.56 | 92.07 PHASE |
| 507 | | | | 40.26 | 3.37 | 13.72 | 6.96 | 2.88 | 6.10 | 3.50 | 4.07 AMP |
| 508 | | | | 344.00 | 86.31 | 213.02 | 323.35 | 312.65 | 45.93 | 285.51 | 59.46 PHASE |
| 509 | | | | 51.01 | 3.55 | 16.10 | 7.98 | 6.21 | 8.39 | 2.69 | 4.25 AMP |
| 510 | | | | 351.70 | 79.59 | 225.04 | 331.39 | 200.00 | 32.54 | 134.64 | 84.42 PHASE |
| 511 | | | | 56.24 | 3.57 | 15.96 | 7.70 | 7.76 | 8.95 | 4.89 | 4.71 AMP |
| 512 | | | | 351.50 | 74.31 | 214.09 | 314.06 | 261.41 | 12.58 | 153.92 | 62.01 PHASE |

TABLE VIII.- Continued

(a) Continued

| TORSION 5% PERCENT RADIUS. | | | | | | | | | | | |
|----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 448 | 4.95 | 5.25 | 688 | 3.14 | 2.34 | .74 | .44 | .35 | .58 | .53 | .15 AMP |
| | | | | 289.58 | 187.58 | 51.85 | 299.87 | 114.44 | 158.95 | 286.32 | 336.52 PHASE |
| 441 | 2.82 | 4.85 | 688 | 2.57 | 2.23 | .68 | .68 | .88 | .37 | .39 | .28 AMP |
| | | | | 299.49 | 97.18 | 48.75 | 272.25 | 122.71 | 142.59 | 277.91 | 337.16 PHASE |
| 442 | .85 | 4.63 | 688 | 2.38 | 2.85 | .66 | .66 | .18 | .34 | .43 | .31 AMP |
| | | | | 313.24 | 92.41 | 36.82 | 251.86 | 322.51 | 133.18 | 295.69 | 342.41 PHASE |
| 443 | -.93 | 4.63 | 688 | 2.28 | 1.92 | .48 | .81 | .11 | .28 | .37 | .37 AMP |
| | | | | 338.78 | 93.31 | 58.28 | 244.26 | 384.78 | 173.72 | 327.39 | 23.56 PHASE |
| 444 | -3.12 | 5.48 | 688 | 2.66 | 1.84 | .37 | 1.38 | .22 | .22 | .57 | .49 AMP |
| | | | | 358.82 | 98.21 | 96.28 | 235.21 | 238.46 | 278.48 | 354.33 | 31.84 PHASE |
| 445 | -5.59 | 6.41 | 688 | 3.29 | 1.85 | .46 | 1.67 | .49 | .29 | .78 | .58 AMP |
| | | | | 5.14 | 76.72 | 129.92 | 214.84 | 248.32 | 383.92 | 327.18 | 358.96 PHASE |
| 446 | -7.59 | 7.86 | 687 | 4.15 | 1.96 | .74 | 1.96 | .53 | .69 | 1.84 | .56 AMP |
| | | | | 17.92 | 85.19 | 158.12 | 234.48 | 289.53 | 353.58 | 16.32 | 78.61 PHASE |
| 447 | -9.68 | 9.74 | 688 | 5.33 | 2.29 | 1.16 | 2.35 | .58 | 1.11 | 1.26 | 1.81 AMP |
| | | | | 17.82 | 75.61 | 153.96 | 214.82 | 291.46 | 347.21 | 3.11 | 68.75 PHASE |
| 448 | -11.13 | 18.85 | 688 | 6.27 | 2.48 | 1.22 | 2.49 | .59 | 1.34 | 1.36 | 1.86 AMP |
| | | | | 19.44 | 78.21 | 173.84 | 225.18 | 385.76 | 2.31 | 18.72 | 75.89 PHASE |
| 449 | -11.97 | 12.94 | 688 | 7.83 | 2.62 | 1.38 | 2.53 | .98 | 1.62 | 1.57 | 1.38 AMP |
| | | | | 16.85 | 75.49 | 174.27 | 226.35 | 321.16 | 358.18 | .48 | 56.71 PHASE |
| 458 | 3.77 | 5.22 | 688 | 2.74 | 2.48 | .29 | .46 | .15 | .21 | .22 | .22 AMP |
| | | | | 386.84 | 189.36 | 56.21 | 323.27 | 45.93 | 162.14 | 326.95 | 274.58 PHASE |
| 451 | 1.82 | 4.62 | 688 | 2.43 | 2.23 | .56 | .24 | .38 | .28 | .22 | .17 AMP |
| | | | | 317.19 | 182.84 | 56.89 | 292.86 | 39.14 | 129.51 | 328.13 | 29.74 PHASE |
| 452 | -.17 | 4.26 | 688 | 2.19 | 2.13 | .48 | .38 | .28 | .25 | .29 | .27 AMP |
| | | | | 331.97 | 94.62 | 64.85 | 232.11 | 28.75 | 156.21 | 319.22 | 58.93 PHASE |
| 453 | -2.17 | 4.39 | 688 | 2.38 | 2.88 | .42 | .55 | .27 | .36 | .39 | .41 AMP |
| | | | | 349.86 | 88.89 | 89.68 | 212.58 | 348.87 | 281.25 | 385.17 | 48.66 PHASE |
| 454 | -4.39 | 5.43 | 689 | 2.76 | 1.96 | .44 | 1.88 | .21 | .33 | .41 | .39 AMP |
| | | | | 4.34 | 88.35 | 137.48 | 221.25 | 258.85 | 254.82 | 334.28 | 88.16 PHASE |
| 455 | -6.61 | 7.84 | 688 | 3.49 | 1.92 | .78 | 1.67 | .39 | .23 | .36 | .32 AMP |
| | | | | 13.83 | 88.63 | 175.57 | 231.23 | 256.24 | 326.75 | 27.19 | 145.49 PHASE |
| 456 | -8.53 | 8.21 | 687 | 4.28 | 2.88 | 1.89 | 2.81 | .43 | .18 | .22 | .23 AMP |
| | | | | 17.82 | 83.62 | 188.26 | 225.81 | 223.94 | 43.86 | 5.45 | 154.88 PHASE |
| 457 | -18.83 | 9.28 | 689 | 5.59 | 2.12 | 1.15 | 2.26 | .36 | .58 | .23 | .23 AMP |
| | | | | 16.38 | 77.71 | 189.87 | 229.83 | 228.48 | 2.46 | 336.88 | 296.47 PHASE |
| 458 | -12.11 | 18.99 | 688 | 6.65 | 1.86 | 1.83 | 1.88 | .26 | .84 | 1.52 | .88 AMP |
| | | | | 12.73 | 71.65 | 223.76 | 241.98 | 288.39 | 338.69 | 342.36 | 58.55 PHASE |
| 459 | 3.24 | 4.56 | 688 | 2.65 | 2.13 | .61 | .66 | .46 | .39 | .43 | .85 AMP |
| | | | | 298.58 | 98.57 | 51.78 | 281.85 | 181.57 | 142.93 | 319.16 | 257.88 PHASE |
| 468 | 1.54 | 4.28 | 688 | 2.22 | 1.95 | .48 | .67 | .32 | .35 | .46 | .17 AMP |
| | | | | 381.87 | 87.19 | 38.68 | 251.25 | 55.82 | 98.67 | 298.25 | 122.14 PHASE |
| 461 | -.61 | 4.24 | 688 | 2.84 | 1.78 | .33 | .85 | .23 | .33 | .64 | .45 AMP |
| | | | | 327.15 | 84.61 | 57.67 | 233.78 | .47 | 81.86 | 389.88 | 94.72 PHASE |
| 462 | -2.36 | 4.84 | 688 | 2.31 | 1.63 | .28 | 1.88 | .45 | .28 | .88 | .66 AMP |
| | | | | 345.27 | 82.37 | 98.68 | 229.28 | 335.46 | 71.59 | 314.39 | 88.51 PHASE |
| 463 | -4.54 | 6.34 | 688 | 2.94 | 1.62 | .43 | 1.58 | .74 | .47 | .86 | .97 AMP |
| | | | | 5.42 | 88.98 | 143.74 | 235.84 | 315.15 | 15.82 | 348.76 | 77.61 PHASE |
| 464 | -6.87 | 7.79 | 618 | 3.84 | 1.78 | .68 | 1.98 | 1.38 | .78 | .89 | 1.21 AMP |
| | | | | 11.28 | 65.52 | 158.58 | 212.74 | 289.65 | 339.59 | 315.61 | 29.99 PHASE |
| 465 | -8.78 | 9.39 | 688 | 4.88 | 1.91 | .97 | 2.15 | 1.65 | .92 | .96 | 1.32 AMP |
| | | | | 19.69 | 71.88 | 172.12 | 227.55 | 313.87 | .91 | 348.26 | 58.85 PHASE |
| 466 | -18.84 | 18.37 | 688 | 6.87 | 2.18 | 1.36 | 2.38 | 1.89 | 1.14 | .98 | 1.48 AMP |
| | | | | 21.62 | 69.27 | 172.67 | 219.89 | 313.98 | 1.63 | 337.44 | 48.42 PHASE |
| 467 | -12.86 | 11.55 | 688 | 7.13 | 2.39 | 1.78 | 2.47 | 2.83 | 1.54 | 1.14 | 1.75 AMP |
| | | | | 19.98 | 67.48 | 172.73 | 211.58 | 314.51 | 355.64 | 332.81 | 29.78 PHASE |
| 468 | 2.14 | 3.65 | 688 | 2.11 | 1.61 | .41 | .49 | .22 | .23 | .29 | .24 AMP |
| | | | | 296.22 | 86.87 | 51.68 | 251.88 | 28.48 | 188.81 | 298.79 | 114.37 PHASE |
| 469 | .36 | 3.51 | 688 | 1.88 | 1.41 | .38 | .55 | .28 | .25 | .32 | .35 AMP |
| | | | | 315.52 | 82.93 | 52.58 | 241.67 | 351.53 | 76.78 | 288.98 | 95.52 PHASE |
| 478 | -1.68 | 3.43 | 688 | 1.87 | 1.26 | .23 | .72 | .31 | .25 | .45 | .41 AMP |
| | | | | 341.83 | 88.98 | 74.84 | 238.78 | 335.44 | 84.52 | 286.41 | 65.14 PHASE |
| 471 | -3.75 | 4.11 | 688 | 2.32 | 1.21 | .27 | .93 | .41 | .26 | .41 | .58 AMP |
| | | | | 4.91 | 82.51 | 121.45 | 248.57 | 328.35 | 43.88 | 325.61 | 88.75 PHASE |
| 472 | -5.99 | 5.89 | 688 | 3.11 | 1.21 | .42 | 1.14 | .68 | .34 | .34 | .59 AMP |
| | | | | 14.39 | 78.31 | 148.59 | 223.48 | 382.59 | 16.87 | 292.71 | 47.83 PHASE |
| 473 | -8.83 | 6.28 | 688 | 4.82 | 1.28 | .68 | 1.31 | .85 | .48 | .27 | .68 AMP |
| | | | | 19.44 | 64.95 | 155.11 | 216.68 | 381.57 | 4.71 | 257.59 | 32.44 PHASE |
| 474 | -18.27 | 7.72 | 688 | 5.22 | 1.49 | .88 | 1.49 | 1.88 | .58 | .28 | .65 AMP |
| | | | | 19.68 | 54.39 | 153.66 | 198.81 | 289.17 | 336.62 | 224.29 | 355.35 PHASE |
| 475 | -12.26 | 9.11 | 687 | 6.58 | 1.69 | 1.81 | 1.66 | 1.83 | .98 | .33 | .94 AMP |
| | | | | 24.37 | 61.85 | 166.28 | 197.58 | 294.49 | 348.18 | 282.66 | 15.48 PHASE |
| 476 | -13.22 | 9.88 | 688 | 7.41 | 1.87 | 1.87 | 1.65 | 1.81 | 1.81 | .16 | .91 AMP |
| | | | | 22.46 | 58.61 | 162.32 | 181.57 | 287.78 | 325.88 | 262.82 | 349.67 PHASE |

TABLE VIII.- Continued

(a) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 440 | -9.46 | 22.14 | 608 | 14.52 | 9.31 | 1.67 | 2.16 | 3.47 | .08 | .96 | 1.64 AMP |
| | | | | 118.68 | 293.26 | 268.88 | 188.88 | 328.87 | 18.43 | 178.93 | 331.57 PHASE |
| 441 | -6.23 | 21.78 | 608 | 13.71 | 9.41 | 2.07 | 2.26 | 2.63 | .14 | .83 | 1.37 AMP |
| | | | | 121.81 | 283.99 | 282.37 | 84.54 | 386.27 | 187.61 | 167.84 | 298.17 PHASE |
| 442 | -3.34 | 22.63 | 608 | 13.47 | 9.36 | 2.61 | 2.54 | 2.54 | .23 | .65 | 1.22 AMP |
| | | | | 125.88 | 279.82 | 288.74 | 78.75 | 294.32 | 118.23 | 175.43 | 283.63 PHASE |
| 443 | -.58 | 23.65 | 608 | 13.64 | 9.87 | 3.88 | 3.18 | 2.35 | .47 | .58 | 1.46 AMP |
| | | | | 131.87 | 281.73 | 314.86 | 68.98 | 316.46 | 148.85 | 286.23 | 314.57 PHASE |
| 444 | 3.88 | 26.46 | 608 | 14.85 | 9.16 | 4.14 | 4.17 | 1.73 | .81 | .57 | 1.74 AMP |
| | | | | 136.56 | 281.41 | 325.75 | 65.53 | 343.29 | 162.51 | 234.85 | 335.13 PHASE |
| 445 | 6.96 | 27.54 | 608 | 14.81 | 9.28 | 4.72 | 5.87 | .77 | .98 | .55 | 1.68 AMP |
| | | | | 139.71 | 278.81 | 324.54 | 43.39 | 356.32 | 145.34 | 239.33 | 318.94 PHASE |
| 446 | 18.89 | 28.58 | 607 | 14.48 | 9.25 | 5.19 | 5.74 | .67 | 1.88 | .91 | 1.46 AMP |
| | | | | 158.11 | 283.68 | 347.84 | 67.89 | 4.39 | 217.86 | 282.78 | 55.44 PHASE |
| 447 | 13.46 | 38.19 | 608 | 15.01 | 9.45 | 5.51 | 6.32 | .76 | 1.29 | .84 | 3.28 AMP |
| | | | | 149.38 | 277.82 | 335.69 | 48.28 | 322.97 | 211.19 | 275.15 | 28.41 PHASE |
| 448 | 15.82 | 31.77 | 608 | 15.72 | 9.35 | 4.92 | 6.67 | .96 | 1.17 | .58 | 3.96 AMP |
| | | | | 153.81 | 283.37 | 345.62 | 55.44 | 359.76 | 241.32 | 289.63 | 51.45 PHASE |
| 449 | 16.81 | 33.42 | 608 | 16.38 | 9.55 | 5.88 | 6.88 | .75 | 1.12 | .77 | 4.63 AMP |
| | | | | 153.46 | 284.84 | 341.87 | 49.94 | 3.26 | 233.58 | 294.44 | 29.84 PHASE |
| 450 | -8.88 | 21.88 | 608 | 14.85 | 18.14 | .94 | 1.22 | 2.32 | .19 | .72 | .88 AMP |
| | | | | 125.39 | 295.66 | 388.68 | 138.38 | 388.13 | 137.13 | 281.22 | 171.86 PHASE |
| 451 | -6.82 | 21.18 | 608 | 13.48 | 18.27 | 1.35 | 1.44 | 1.91 | .35 | .38 | 1.44 AMP |
| | | | | 128.71 | 286.58 | 327.78 | 97.88 | 382.78 | 56.83 | 178.42 | 345.54 PHASE |
| 452 | -3.88 | 21.25 | 608 | 12.78 | 18.56 | 1.98 | 1.81 | 2.19 | .61 | .18 | 1.13 AMP |
| | | | | 132.97 | 279.75 | 334.61 | 63.96 | 383.56 | 44.48 | 88.29 | 346.82 PHASE |
| 453 | -.88 | 21.95 | 608 | 12.37 | 18.81 | 2.69 | 2.39 | 1.96 | .81 | .33 | 1.63 AMP |
| | | | | 137.38 | 274.82 | 333.84 | 43.94 | 383.81 | 78.88 | 111.88 | 355.97 PHASE |
| 454 | 3.48 | 23.72 | 609 | 12.51 | 18.75 | 3.41 | 3.66 | .72 | .64 | .62 | 1.65 AMP |
| | | | | 144.35 | 276.78 | 354.37 | 54.99 | 355.89 | 112.76 | 177.19 | 31.78 PHASE |
| 455 | 7.33 | 24.31 | 608 | 12.97 | 9.84 | 3.85 | 4.75 | 2.18 | .19 | .56 | 1.71 AMP |
| | | | | 149.15 | 278.68 | 12.34 | 65.27 | 23.98 | 85.63 | 221.16 | 94.28 PHASE |
| 456 | 18.75 | 25.28 | 607 | 13.48 | 9.44 | 4.11 | 5.72 | 2.76 | .15 | .96 | 2.15 AMP |
| | | | | 158.63 | 275.42 | 15.28 | 61.59 | 33.21 | 188.56 | 283.81 | 181.67 PHASE |
| 457 | 14.51 | 27.93 | 609 | 14.51 | 9.47 | 3.86 | 6.99 | 3.85 | .47 | 1.28 | 2.41 AMP |
| | | | | 152.68 | 277.56 | 18.51 | 61.27 | 37.33 | 388.11 | 248.73 | 121.17 PHASE |
| 458 | 16.24 | 38.45 | 608 | 15.87 | 9.47 | 3.37 | 7.63 | 4.68 | .55 | .65 | 3.81 AMP |
| | | | | 153.93 | 284.31 | 15.99 | 62.18 | 42.63 | 348.24 | 284.46 | 57.86 PHASE |
| 459 | -6.59 | 19.98 | 608 | 13.58 | 8.11 | 2.25 | 2.55 | 3.86 | .48 | 1.13 | .95 AMP |
| | | | | 119.15 | 292.33 | 297.84 | 95.41 | 315.88 | 177.44 | 227.45 | 43.62 PHASE |
| 460 | -3.68 | 28.72 | 608 | 13.28 | 7.98 | 2.72 | 3.87 | 3.48 | .37 | 1.11 | 2.29 AMP |
| | | | | 128.14 | 281.11 | 296.89 | 78.28 | 288.94 | 164.75 | 188.82 | 3.96 PHASE |
| 461 | -.42 | 23.18 | 608 | 13.31 | 8.85 | 3.53 | 3.58 | 2.83 | .24 | .88 | 3.27 AMP |
| | | | | 127.48 | 277.92 | 386.89 | 62.88 | 269.97 | 137.98 | 184.87 | 1.21 PHASE |
| 462 | 2.36 | 24.82 | 608 | 13.56 | 7.99 | 4.18 | 4.84 | 2.49 | .36 | .51 | 3.75 AMP |
| | | | | 132.85 | 277.21 | 312.88 | 59.85 | 251.86 | 124.76 | 176.13 | 353.38 PHASE |
| 463 | 5.74 | 28.13 | 608 | 13.89 | 8.34 | 5.26 | 4.74 | 1.95 | .41 | .27 | 4.77 AMP |
| | | | | 148.87 | 279.82 | 328.66 | 63.73 | 213.85 | 189.86 | 246.61 | 2.93 PHASE |
| 464 | 9.52 | 38.36 | 618 | 14.37 | 8.61 | 5.75 | 5.59 | 3.49 | .51 | .43 | 5.22 AMP |
| | | | | 142.84 | 266.62 | 328.39 | 42.88 | 169.55 | 166.88 | 388.72 | 316.59 PHASE |
| 465 | 12.88 | 31.75 | 608 | 15.88 | 8.65 | 5.95 | 6.18 | 4.52 | .74 | .57 | 5.12 AMP |
| | | | | 158.53 | 273.24 | 338.96 | 58.18 | 189.39 | 197.56 | 323.63 | 347.23 PHASE |
| 466 | 16.41 | 33.96 | 608 | 16.17 | 8.58 | 6.48 | 6.88 | 5.18 | .86 | .58 | 5.52 AMP |
| | | | | 153.44 | 278.46 | 348.66 | 51.58 | 188.91 | 283.58 | 319.76 | 339.39 PHASE |
| 467 | 18.16 | 35.65 | 608 | 16.52 | 8.51 | 6.38 | 7.41 | 4.51 | .63 | .93 | 6.85 AMP |
| | | | | 153.18 | 267.27 | 338.78 | 37.51 | 167.51 | 214.88 | 388.91 | 323.86 PHASE |
| 468 | -3.82 | 17.77 | 608 | 12.81 | 5.98 | 2.16 | 1.98 | 2.28 | .26 | .51 | 1.78 AMP |
| | | | | 121.11 | 283.41 | 385.16 | 78.12 | 265.82 | 126.42 | 168.46 | .85 PHASE |
| 469 | -.89 | 18.43 | 608 | 11.92 | 6.84 | 2.57 | 2.16 | 1.99 | .19 | .42 | 2.83 AMP |
| | | | | 125.96 | 279.96 | 318.12 | 63.81 | 251.86 | 99.87 | 148.91 | 358.45 PHASE |
| 470 | 2.16 | 19.69 | 608 | 12.86 | 6.33 | 3.11 | 2.57 | 1.91 | .22 | .26 | 2.28 AMP |
| | | | | 131.68 | 277.44 | 312.29 | 56.95 | 238.68 | 53.23 | 123.71 | 336.93 PHASE |
| 471 | 5.47 | 21.85 | 608 | 12.29 | 6.57 | 3.88 | 2.79 | 1.53 | .14 | .87 | 2.51 AMP |
| | | | | 141.23 | 283.36 | 331.91 | 67.12 | 223.81 | 115.29 | 139.51 | 358.78 PHASE |
| 472 | 9.19 | 22.55 | 608 | 12.85 | 6.84 | 4.74 | 3.18 | 2.31 | .16 | .35 | 2.85 AMP |
| | | | | 143.98 | 274.98 | 327.96 | 48.75 | 185.51 | 118.29 | 38.87 | 322.65 PHASE |
| 473 | 12.53 | 24.44 | 608 | 13.78 | 7.84 | 5.25 | 3.67 | 3.85 | .15 | .61 | 2.89 AMP |
| | | | | 148.61 | 271.66 | 331.11 | 42.42 | 177.81 | 148.59 | 51.77 | 389.74 PHASE |
| 474 | 16.43 | 25.72 | 608 | 14.79 | 7.88 | 5.59 | 3.94 | 3.51 | .13 | .69 | 2.77 AMP |
| | | | | 158.81 | 263.34 | 324.94 | 26.81 | 168.17 | 243.34 | 44.85 | 272.88 PHASE |
| 475 | 28.88 | 28.16 | 607 | 15.38 | 7.29 | 5.74 | 4.53 | 3.81 | .49 | .61 | 3.18 AMP |
| | | | | 156.78 | 267.38 | 333.11 | 38.42 | 165.51 | 271.39 | 31.54 | 285.87 PHASE |
| 476 | 21.65 | 29.56 | 608 | 17.16 | 7.42 | 5.65 | 5.85 | 3.93 | .63 | .93 | 3.34 AMP |
| | | | | 155.99 | 261.24 | 323.28 | 16.16 | 149.82 | 251.28 | 6.28 | 259.87 PHASE |

TABLE VIII.- Continued

(a) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 448 | -4.46 | 12.14 | 688 | 4.47 | 3.75 | 4.47 | 1.28 | 1.58 | 1.46 | .41 | .31 |
| | | | | 135.88 | 297.33 | 269.52 | 88.91 | 311.84 | 247.67 | 198.82 | 286.69 |
| 441 | -4.15 | 12.29 | 688 | 3.88 | 3.38 | 1.81 | 1.89 | 1.14 | 2.29 | .25 | .32 |
| | | | | 143.47 | 283.52 | 384.36 | 66.66 | 287.18 | 248.68 | 138.88 | 238.55 |
| 442 | -3.88 | 11.77 | 688 | 3.29 | 2.84 | 1.62 | 1.18 | 1.82 | 3.54 | .43 | .18 |
| | | | | 157.94 | 275.58 | 298.14 | 38.14 | 257.21 | 298.27 | 328.71 | 258.53 |
| 443 | -3.17 | 13.83 | 688 | 2.18 | 1.91 | 1.94 | 1.64 | 1.51 | 3.11 | 1.57 | .28 |
| | | | | 188.58 | 276.49 | 318.79 | 18.83 | 282.71 | 356.25 | 359.56 | 283.68 |
| 444 | -2.36 | 13.86 | 688 | 1.73 | 1.87 | 2.33 | 2.48 | 1.48 | 2.42 | 2.53 | .18 |
| | | | | 256.47 | 272.83 | 384.55 | 7.84 | 318.37 | 74.74 | 46.36 | 248.66 |
| 445 | -1.18 | 15.94 | 688 | 3.17 | .33 | 2.72 | 3.87 | 1.44 | 1.85 | 1.69 | .59 |
| | | | | 384.46 | 228.43 | 273.34 | 341.76 | 348.48 | 43.44 | 218.31 | 274.68 |
| 446 | -.16 | 19.44 | 687 | 5.89 | .42 | 3.75 | 3.76 | 1.83 | 1.82 | 2.84 | .73 |
| | | | | 324.85 | 96.12 | 288.76 | 352.93 | 24.37 | 68.21 | 384.24 | 327.57 |
| 447 | .38 | 23.81 | 688 | 7.38 | .91 | 5.89 | 5.83 | 1.46 | 1.39 | 3.82 | .96 |
| | | | | 325.49 | 67.81 | 261.31 | 322.77 | 338.58 | 48.32 | 273.42 | 336.62 |
| 448 | .68 | 25.66 | 688 | 8.62 | .87 | 5.98 | 5.78 | 1.89 | 3.21 | 2.25 | 1.29 |
| | | | | 333.87 | 66.98 | 262.27 | 326.44 | 342.88 | 357.89 | 278.27 | 298.88 |
| 449 | .88 | 25.17 | 688 | 9.24 | .72 | 6.56 | 6.38 | 1.58 | 2.49 | 2.25 | 1.37 |
| | | | | 331.84 | 54.81 | 258.95 | 325.86 | 7.61 | 29.31 | 265.76 | 298.42 |
| 458 | -7.88 | 12.35 | 688 | 4.12 | 3.84 | .34 | .94 | 1.88 | .85 | .58 | .56 |
| | | | | 154.11 | 297.11 | 291.95 | 118.29 | 276.38 | 254.36 | 182.99 | 285.19 |
| 451 | -7.97 | 18.87 | 688 | 3.57 | 3.33 | .88 | .98 | 1.63 | 1.58 | .33 | .82 |
| | | | | 178.16 | 285.22 | 311.84 | 87.37 | 264.48 | 285.42 | 81.71 | 111.68 |
| 452 | -6.76 | 14.35 | 688 | 2.82 | 2.62 | 1.31 | 1.88 | 1.66 | 3.99 | .86 | .62 |
| | | | | 195.88 | 275.64 | 326.38 | 58.51 | 271.53 | 339.62 | 355.66 | 126.44 |
| 453 | -5.24 | 15.12 | 688 | 2.28 | 1.68 | 1.19 | 1.36 | 1.68 | 4.49 | 1.75 | .48 |
| | | | | 234.82 | 258.98 | 331.85 | 12.89 | 273.89 | 21.88 | 38.66 | 287.53 |
| 454 | -3.69 | 12.88 | 689 | 2.69 | .93 | .99 | 1.84 | 1.57 | 3.88 | 1.34 | .51 |
| | | | | 284.16 | 219.38 | 324.84 | 15.99 | 329.56 | 39.19 | 114.18 | 322.88 |
| 455 | -2.68 | 14.86 | 688 | 4.54 | .91 | 1.76 | 2.54 | 1.93 | 2.99 | 1.71 | 1.67 |
| | | | | 318.59 | 154.48 | 283.48 | 355.74 | 7.21 | 52.83 | 263.96 | 346.96 |
| 456 | -1.92 | 18.86 | 687 | 6.45 | 1.36 | 3.86 | 3.61 | 2.89 | 1.51 | 2.49 | 1.22 |
| | | | | 326.24 | 127.89 | 271.78 | 337.73 | .84 | 339.32 | 242.22 | 356.19 |
| 457 | -1.62 | 25.63 | 689 | 9.18 | 1.48 | 4.78 | 5.36 | 3.15 | 4.25 | 2.87 | 1.48 |
| | | | | 327.79 | 98.14 | 259.76 | 323.41 | 346.11 | 337.24 | 262.21 | 353.28 |
| 458 | -1.46 | 29.86 | 688 | 18.53 | 1.85 | 5.93 | 5.99 | 2.96 | 6.96 | 2.31 | 2.36 |
| | | | | 332.79 | 76.18 | 263.81 | 324.39 | 335.25 | 335.17 | 253.27 | 321.26 |
| 459 | -8.63 | 13.24 | 688 | 4.89 | 3.16 | 1.31 | 1.23 | .96 | 3.62 | .44 | .28 |
| | | | | 129.17 | 291.83 | 317.61 | 73.95 | 329.28 | 266.28 | 28.38 | 13.48 |
| 468 | -8.81 | 14.66 | 688 | 3.55 | 2.69 | 1.91 | 1.47 | .73 | 4.73 | .79 | .29 |
| | | | | 134.41 | 278.65 | 318.18 | 43.19 | 319.21 | 248.13 | 318.97 | 6.89 |
| 461 | -7.97 | 15.46 | 688 | 2.51 | 1.95 | 2.57 | 1.83 | 1.42 | 4.99 | 1.61 | .58 |
| | | | | 155.33 | 273.88 | 384.87 | 22.21 | 292.84 | 292.44 | 317.32 | 84.74 |
| 462 | -6.56 | 12.21 | 688 | 1.39 | 1.31 | 2.74 | 2.27 | 1.59 | 1.92 | 1.86 | .57 |
| | | | | 197.32 | 272.55 | 299.91 | 18.28 | 282.39 | 346.14 | 342.34 | 123.27 |
| 463 | -5.19 | 11.99 | 688 | 1.53 | .75 | 3.28 | 3.12 | 1.45 | .96 | 1.86 | .94 |
| | | | | 288.59 | 273.31 | 298.51 | 11.88 | 342.18 | 155.92 | 159.65 | 113.71 |
| 464 | -3.71 | 13.81 | 618 | 3.55 | .28 | 4.89 | 3.68 | 1.88 | 1.31 | 2.82 | .72 |
| | | | | 315.78 | 291.13 | 268.75 | 342.86 | 9.86 | 83.82 | 284.42 | 75.58 |
| 465 | -2.48 | 16.17 | 688 | 5.53 | .44 | 4.85 | 4.26 | .92 | 1.92 | 3.89 | .95 |
| | | | | 326.79 | 22.34 | 274.49 | 351.35 | 68.18 | 186.89 | 263.12 | 113.28 |
| 466 | -1.48 | 21.27 | 688 | 8.13 | 1.28 | 5.77 | 5.18 | .99 | 2.73 | 3.35 | 1.25 |
| | | | | 329.19 | 38.34 | 265.96 | 341.19 | 52.27 | 83.28 | 268.85 | 99.15 |
| 467 | -.92 | 22.66 | 688 | 9.46 | 1.53 | 6.38 | 5.71 | .44 | 2.79 | 2.75 | 1.62 |
| | | | | 333.23 | 47.98 | 253.42 | 328.23 | 16.71 | 22.69 | 243.47 | 93.18 |
| 468 | -7.63 | 18.66 | 688 | 3.58 | 2.32 | 1.56 | 1.14 | .88 | 1.95 | .42 | .11 |
| | | | | 125.94 | 278.72 | 389.42 | 51.18 | 329.97 | 252.56 | 345.86 | 79.29 |
| 469 | -8.88 | 11.23 | 688 | 2.92 | 1.98 | 1.99 | 1.41 | .89 | 2.69 | .53 | .27 |
| | | | | 136.74 | 274.14 | 385.39 | 35.93 | 298.55 | 278.19 | 344.58 | 84.11 |
| 478 | -7.76 | 18.63 | 688 | 1.78 | 1.44 | 2.16 | 1.78 | 1.29 | 2.73 | 1.89 | .27 |
| | | | | 154.58 | 272.23 | 388.48 | 21.54 | 279.88 | 389.83 | 17.24 | 121.88 |
| 471 | -6.34 | 9.73 | 688 | .52 | 1.18 | 2.34 | 2.25 | 1.16 | .59 | 1.47 | .43 |
| | | | | 248.22 | 277.89 | 382.61 | 27.61 | 322.27 | 387.69 | 114.57 | 117.35 |
| 472 | -4.64 | 18.62 | 688 | 2.12 | .84 | 3.85 | 2.82 | .84 | .48 | 1.43 | .35 |
| | | | | 315.61 | 288.31 | 282.41 | 6.52 | 333.78 | 47.23 | 181.61 | 82.33 |
| 473 | -3.14 | 13.55 | 688 | 4.23 | .84 | 3.87 | 3.27 | .43 | 1.75 | 1.71 | .84 |
| | | | | 326.94 | 383.33 | 278.84 | 356.89 | 5.78 | 79.85 | 245.84 | 48.37 |
| 474 | -1.88 | 17.55 | 688 | 6.94 | .97 | 4.91 | 3.94 | .22 | 2.89 | 1.31 | 1.81 |
| | | | | 327.84 | 338.87 | 252.33 | 335.43 | 246.27 | 42.76 | 278.54 | 27.82 |
| 475 | -1.31 | 19.85 | 687 | 9.79 | 1.58 | 5.99 | 4.57 | 1.57 | 3.81 | 1.37 | .82 |
| | | | | 335.55 | 354.12 | 254.23 | 338.72 | 255.89 | 29.34 | 125.46 | 57.89 |
| 476 | -.52 | 22.58 | 688 | 18.89 | 1.54 | 6.31 | 4.73 | 2.22 | 3.91 | 2.16 | .88 |
| | | | | 335.65 | 357.71 | 248.77 | 322.26 | 239.61 | 9.26 | 144.52 | 39.42 |

TABLE VIII.- Continued

(a) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 448 | 2.23 | 5.89 | 688 | 2.95 | 2.17 | .59 | .62 | .26 | .41 | .42 | .86 AMP |
| 441 | .26 | 4.28 | 688 | 288.57 | 187.12 | 61.82 | 348.16 | 198.25 | 159.17 | 338.27 | 84.41 PHASE |
| 442 | -1.51 | 3.81 | 688 | 2.31 | 2.82 | .52 | .68 | .23 | .29 | .33 | .19 AMP |
| 443 | -3.84 | 3.81 | 688 | 287.75 | 99.44 | 58.31 | 387.82 | 224.25 | 145.75 | 325.54 | 26.24 PHASE |
| 444 | -4.93 | 4.75 | 688 | 1.97 | 1.87 | .49 | .59 | .21 | .16 | .32 | .22 AMP |
| 445 | -7.11 | 5.28 | 688 | 388.28 | 97.41 | 43.82 | 288.47 | 258.33 | 129.88 | 326.85 | 22.61 PHASE |
| 446 | -8.88 | 6.41 | 687 | 1.81 | 1.78 | .38 | .68 | .27 | .89 | .28 | .28 AMP |
| 447 | -18.47 | 8.21 | 688 | 318.17 | 181.98 | 68.85 | 279.77 | 257.58 | 142.17 | 355.17 | 67.63 PHASE |
| 448 | -11.76 | 9.21 | 688 | 1.95 | 1.57 | .36 | .81 | .36 | .12 | .43 | .34 AMP |
| 449 | -12.38 | 18.34 | 688 | 343.28 | 183.94 | 85.77 | 253.85 | 251.18 | 326.81 | 16.56 | 81.85 PHASE |
| 450 | 1.28 | 4.55 | 688 | 2.48 | 1.48 | .35 | 1.89 | .55 | .37 | .51 | .33 AMP |
| 451 | -.57 | 4.13 | 688 | 4.81 | 94.42 | 184.82 | 221.23 | 243.76 | 325.88 | 355.34 | 68.39 PHASE |
| 452 | -2.39 | 3.81 | 688 | 3.82 | 1.34 | .58 | 1.28 | .57 | .66 | .74 | .38 AMP |
| 453 | -4.19 | 3.74 | 688 | 19.78 | 187.69 | 132.91 | 236.82 | 282.84 | 8.37 | 42.31 | 123.89 PHASE |
| 454 | -6.28 | 4.41 | 689 | 3.83 | 1.39 | .78 | 1.58 | .55 | .95 | .97 | .61 AMP |
| 455 | -8.14 | 5.88 | 688 | 21.47 | 182.15 | 124.54 | 211.88 | 278.36 | 351.34 | 24.42 | 118.89 PHASE |
| 456 | -9.78 | 6.74 | 687 | 4.63 | 1.45 | .66 | 1.66 | .57 | 1.89 | .94 | .54 AMP |
| 457 | -11.52 | 7.41 | 689 | 25.93 | 111.64 | 137.89 | 217.47 | 288.39 | 4.38 | 29.75 | 127.44 PHASE |
| 458 | -12.34 | 7.74 | 688 | 5.15 | 1.61 | .88 | 1.81 | .73 | 1.22 | .99 | .61 AMP |
| 459 | 1.84 | 4.39 | 688 | 24.35 | 189.49 | 135.19 | 213.64 | 287.88 | 359.34 | 18.67 | 115.88 PHASE |
| 460 | -.56 | 3.88 | 688 | 2.52 | 2.36 | .49 | .58 | .22 | .15 | .27 | .21 AMP |
| 461 | -2.48 | 3.94 | 688 | 294.21 | 187.85 | 49.35 | 354.36 | 11.85 | 153.58 | 18.67 | 322.45 PHASE |
| 462 | -4.82 | 4.88 | 688 | 2.15 | 2.23 | .42 | .41 | .17 | .15 | .22 | .16 AMP |
| 463 | -5.95 | 4.95 | 688 | 383.52 | 182.14 | 39.85 | 332.81 | 357.84 | 127.73 | .58 | 36.85 PHASE |
| 464 | -8.88 | 6.21 | 618 | 1.76 | 2.13 | .35 | .38 | .12 | .11 | .21 | .28 AMP |
| 465 | -9.61 | 6.87 | 688 | 318.52 | 96.97 | 48.85 | 381.84 | 329.55 | 142.49 | 338.65 | 68.82 PHASE |
| 466 | -11.35 | 7.87 | 688 | 1.78 | 1.99 | .23 | .35 | .21 | .15 | .32 | .26 AMP |
| 467 | -12.48 | 8.74 | 688 | 348.68 | 92.45 | 51.37 | 256.14 | 283.14 | 228.89 | 312.69 | 63.58 PHASE |
| 468 | .25 | 3.54 | 688 | 2.82 | 1.72 | .88 | .69 | .35 | .25 | .41 | .22 AMP |
| 469 | -1.41 | 3.28 | 688 | .34 | 95.57 | 91.48 | 238.83 | 254.98 | 286.69 | 344.84 | 184.97 PHASE |
| 470 | -3.29 | 2.94 | 688 | 2.46 | 1.48 | .28 | 1.85 | .49 | .34 | .45 | .28 AMP |
| 471 | -5.13 | 3.34 | 688 | 13.61 | 98.72 | 283.12 | 238.46 | 257.88 | 338.88 | 34.87 | 171.68 PHASE |
| 472 | -7.14 | 3.94 | 688 | 3.88 | 1.38 | .36 | 1.32 | .49 | .35 | .39 | .22 AMP |
| 473 | -8.93 | 4.68 | 688 | 28.68 | 96.75 | 186.31 | 226.22 | 236.55 | 16.81 | 41.22 | 196.97 PHASE |
| 474 | -18.85 | 5.61 | 688 | 3.94 | 1.43 | .45 | 1.53 | .47 | .54 | .43 | .33 AMP |
| 475 | -12.58 | 6.61 | 687 | 25.72 | 188.98 | 163.12 | 219.52 | 219.42 | 15.67 | 26.77 | 266.76 PHASE |
| 476 | -13.35 | 6.81 | 688 | 4.68 | 1.33 | .36 | 1.56 | .53 | .37 | .63 | .88 AMP |
| | | | | 26.24 | 115.91 | 187.62 | 222.53 | 211.67 | 351.17 | 336.66 | 181.48 PHASE |
| | | | | 2.53 | 1.88 | .63 | .68 | .14 | .31 | .39 | .11 AMP |
| | | | | 278.98 | 183.58 | 67.43 | 319.64 | 159.93 | 156.29 | 19.34 | 238.73 PHASE |
| | | | | 2.82 | 1.69 | .53 | .64 | .83 | .28 | .43 | .29 AMP |
| | | | | 286.22 | 94.87 | 56.46 | 285.36 | 234.33 | 187.17 | 349.18 | 167.38 PHASE |
| | | | | 1.64 | 1.51 | .41 | .68 | .16 | .32 | .58 | .43 AMP |
| | | | | 311.18 | 93.88 | 67.87 | 266.21 | 265.44 | 88.59 | 342.78 | 147.74 PHASE |
| | | | | 1.66 | 1.34 | .48 | .81 | .38 | .33 | .57 | .51 AMP |
| | | | | 332.73 | 95.89 | 79.66 | 252.89 | 283.14 | 77.74 | 333.83 | 128.93 PHASE |
| | | | | 2.85 | 1.28 | .46 | 1.86 | .61 | .44 | .63 | .67 AMP |
| | | | | 1.87 | 98.82 | 112.85 | 246.28 | 288.63 | 42.58 | 1.43 | 127.81 PHASE |
| | | | | 2.72 | 1.14 | .54 | 1.38 | .98 | .65 | .61 | .83 AMP |
| | | | | 11.68 | 85.36 | 115.95 | 216.41 | 271.43 | 356.18 | 338.51 | 78.64 PHASE |
| | | | | 3.44 | 1.88 | .66 | 1.68 | 1.21 | .84 | .68 | .85 AMP |
| | | | | 22.48 | 92.99 | 148.89 | 227.43 | 296.55 | 13.83 | 12.75 | 187.52 PHASE |
| | | | | 4.45 | 1.11 | .85 | 1.86 | 1.33 | 1.81 | .65 | .89 AMP |
| | | | | 25.99 | 96.49 | 142.25 | 217.18 | 296.35 | 18.32 | 357.82 | 97.12 PHASE |
| | | | | 5.27 | 1.26 | .95 | 1.92 | 1.38 | 1.24 | .75 | .98 AMP |
| | | | | 25.29 | 98.17 | 144.86 | 285.59 | 295.94 | 359.98 | 351.79 | 77.29 PHASE |
| | | | | 1.99 | 1.39 | .46 | .44 | .85 | .23 | .28 | .27 AMP |
| | | | | 278.87 | 92.97 | 58.88 | 278.68 | 282.94 | 184.88 | 348.72 | 158.13 PHASE |
| | | | | 1.56 | 1.21 | .34 | .58 | .24 | .27 | .31 | .31 AMP |
| | | | | 295.33 | 91.79 | 68.97 | 268.79 | 283.19 | 81.36 | 327.98 | 139.88 PHASE |
| | | | | 1.88 | 1.88 | .38 | .59 | .16 | .27 | .38 | .27 AMP |
| | | | | 325.84 | 93.41 | 71.81 | 253.92 | 287.13 | 83.84 | 387.68 | 118.74 PHASE |
| | | | | 1.54 | .96 | .32 | .71 | .28 | .24 | .38 | .34 AMP |
| | | | | 357.32 | 188.99 | 182.58 | 254.46 | 289.52 | 64.85 | 348.18 | 123.99 PHASE |
| | | | | 2.14 | .87 | .38 | .86 | .45 | .32 | .24 | .43 AMP |
| | | | | 12.79 | 93.28 | 114.38 | 238.33 | 281.32 | 23.58 | 317.84 | 98.88 PHASE |
| | | | | 2.67 | .79 | .46 | 1.81 | .55 | .48 | .18 | .43 AMP |
| | | | | 28.74 | 91.24 | 124.48 | 218.68 | 283.76 | 8.11 | 291.21 | 84.58 PHASE |
| | | | | 3.82 | .78 | .68 | 1.28 | .63 | .51 | .28 | .38 AMP |
| | | | | 22.33 | 82.57 | 123.61 | 197.77 | 276.82 | 341.85 | 245.88 | 48.89 PHASE |
| | | | | 4.95 | .81 | .64 | 1.36 | .68 | .63 | .33 | .56 AMP |
| | | | | 28.73 | 99.21 | 129.79 | 194.83 | 283.49 | 344.15 | 288.38 | 49.88 PHASE |
| | | | | 5.51 | .86 | .69 | 1.43 | .55 | .69 | .26 | .61 AMP |
| | | | | 27.28 | 93.66 | 116.68 | 177.84 | 276.34 | 329.67 | 259.64 | 21.51 PHASE |

TABLE VIII.- Continued

(a) Concluded

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 440 | -5.80 | 6.73 | 600 | 3.95 | 2.42 | 1.02 | .74 | .60 | .60 | .66 | .44 AMP |
| 441 | -4.20 | 6.90 | 600 | 112.25 | 305.15 | 219.27 | 103.51 | 269.92 | 337.64 | 70.05 | 120.10 PHASE |
| 442 | -2.57 | 6.98 | 600 | 3.61 | 2.00 | 1.09 | .91 | .41 | .42 | .50 | .49 AMP |
| 443 | -.92 | 6.54 | 600 | 142.71 | 208.00 | 214.24 | 78.37 | 244.44 | 329.68 | 61.43 | 101.45 PHASE |
| 444 | 1.12 | 8.16 | 600 | 3.75 | 1.73 | 1.06 | 1.05 | .24 | .23 | .50 | .51 AMP |
| 445 | 3.41 | 10.40 | 600 | 163.16 | 278.30 | 220.49 | 64.23 | 227.20 | 333.03 | 90.55 | 114.65 PHASE |
| 446 | 5.39 | 13.11 | 607 | 4.20 | 1.74 | .61 | 1.25 | .20 | .34 | .60 | .51 AMP |
| 447 | 7.52 | 18.16 | 600 | 100.72 | 270.05 | 245.20 | 57.19 | 235.50 | 6.29 | 133.31 | 148.74 PHASE |
| 448 | 9.06 | 21.75 | 600 | 4.97 | 1.07 | .27 | 1.95 | .24 | .37 | .62 | .67 AMP |
| 449 | 10.02 | 25.33 | 600 | 195.62 | 269.01 | 292.11 | 55.48 | 6.34 | 90.39 | 165.07 | 160.39 PHASE |
| 450 | -5.29 | 6.54 | 600 | 6.47 | 2.21 | .63 | 2.35 | .40 | .34 | .93 | .70 AMP |
| 451 | -3.65 | 6.74 | 600 | 191.93 | 252.00 | 307.64 | 33.55 | 42.07 | 00.66 | 133.00 | 150.74 PHASE |
| 452 | -1.90 | 6.82 | 600 | 8.50 | 2.53 | 1.30 | 2.02 | .70 | .65 | 1.20 | .71 AMP |
| 453 | -.00 | 7.06 | 600 | 201.19 | 256.05 | 339.30 | 56.44 | 84.30 | 157.70 | 181.41 | 234.00 PHASE |
| 454 | 2.20 | 9.60 | 609 | 10.00 | 3.15 | 2.11 | 3.51 | .03 | 1.00 | 1.40 | 1.49 AMP |
| 455 | 4.65 | 13.50 | 600 | 197.31 | 245.05 | 343.05 | 41.32 | 74.04 | 161.55 | 164.20 | 216.00 PHASE |
| 456 | 6.77 | 16.73 | 607 | 12.73 | 3.33 | 2.34 | 3.06 | .91 | 1.29 | 1.52 | 1.77 AMP |
| 457 | 9.42 | 19.83 | 609 | 197.77 | 249.39 | .31 | 53.34 | 69.04 | 179.20 | 165.00 | 230.23 PHASE |
| 458 | 11.01 | 23.10 | 600 | 14.07 | 3.62 | 2.99 | 3.00 | .96 | 1.48 | 2.09 | 2.10 AMP |
| 459 | -3.94 | 6.66 | 600 | 197.34 | 247.25 | 3.47 | 51.37 | 93.54 | 175.74 | 150.07 | 212.10 PHASE |
| 460 | -2.40 | 7.06 | 600 | 3.91 | 2.01 | .93 | .40 | .81 | .22 | .33 | .44 AMP |
| 461 | -.47 | 7.10 | 600 | 139.60 | 301.01 | 231.24 | 111.00 | 210.33 | 41.67 | 71.76 | 30.35 PHASE |
| 462 | 1.13 | 7.57 | 600 | 3.70 | 1.07 | 1.04 | .45 | .63 | .20 | .25 | .10 AMP |
| 463 | 3.11 | 9.00 | 600 | 162.21 | 291.10 | 242.56 | 06.16 | 225.66 | 14.30 | 70.69 | 107.16 PHASE |
| 464 | 5.20 | 12.43 | 610 | 4.10 | 1.01 | 1.03 | .53 | .49 | .25 | .23 | .29 AMP |
| 465 | 7.05 | 14.22 | 600 | 173.05 | 279.13 | 255.53 | 49.60 | 210.24 | 9.61 | 121.57 | 100.05 PHASE |
| 466 | 9.00 | 17.33 | 600 | 4.95 | 1.93 | .93 | .05 | .45 | .45 | .42 | .62 AMP |
| 467 | 10.30 | 22.22 | 600 | 181.60 | 266.32 | 279.04 | 37.47 | 201.92 | 25.69 | 135.57 | 200.59 PHASE |
| 468 | -2.36 | 4.95 | 600 | 6.36 | 2.10 | .99 | 1.50 | .10 | .39 | .21 | .74 AMP |
| 469 | -.70 | 5.15 | 600 | 107.05 | 260.49 | 300.13 | 40.42 | 3.07 | 77.53 | 145.37 | 233.11 PHASE |
| 470 | .97 | 5.90 | 600 | 8.34 | 2.49 | 1.53 | 2.50 | .45 | .00 | .10 | .70 AMP |
| 471 | 2.79 | 7.45 | 600 | 192.32 | 272.43 | 344.33 | 62.71 | 30.50 | 175.26 | 55.01 | 290.04 PHASE |
| 472 | 4.75 | 9.04 | 600 | 10.27 | 2.03 | 1.96 | 2.02 | 1.04 | .35 | .05 | .75 AMP |
| 473 | 6.63 | 10.99 | 600 | 193.65 | 272.05 | 355.40 | 59.54 | 359.47 | 357.09 | 61.06 | 200.03 PHASE |
| 474 | 8.00 | 13.66 | 600 | 12.01 | 3.06 | 2.46 | 3.06 | 1.36 | .16 | 1.30 | .53 AMP |
| 475 | 10.67 | 16.61 | 607 | 195.99 | 264.23 | 9.00 | 64.00 | 17.46 | 41.06 | 116.00 | 322.61 PHASE |
| 476 | 11.52 | 19.16 | 600 | 14.02 | 2.73 | 2.34 | 2.30 | 1.06 | .91 | 2.13 | 1.20 AMP |
| | | | | 194.97 | 261.19 | 39.09 | 75.20 | 15.00 | 122.02 | 151.00 | 244.79 PHASE |
| | | | | 3.22 | 1.05 | .90 | .05 | .99 | .30 | .67 | .00 AMP |
| | | | | 139.62 | 200.23 | 210.22 | 06.61 | 265.62 | 346.13 | 09.44 | 150.02 PHASE |
| | | | | 3.51 | 1.54 | .05 | .93 | .74 | .10 | .72 | .45 AMP |
| | | | | 153.20 | 272.73 | 201.67 | 64.11 | 220.00 | 293.61 | 62.64 | 170.00 PHASE |
| | | | | 4.02 | 1.41 | .51 | 1.20 | .57 | .12 | .70 | .04 AMP |
| | | | | 171.93 | 259.04 | 211.10 | 46.03 | 192.67 | 214.63 | 97.35 | 199.10 PHASE |
| | | | | 4.50 | 1.37 | .21 | 1.50 | .00 | .17 | .74 | 1.00 AMP |
| | | | | 109.36 | 250.21 | 207.52 | 44.20 | 173.93 | 75.90 | 117.90 | 199.32 PHASE |
| | | | | 5.67 | 1.59 | .25 | 2.05 | 1.07 | .56 | .06 | 1.77 AMP |
| | | | | 196.02 | 253.92 | 327.20 | 50.17 | 147.34 | 131.00 | 149.02 | 207.06 PHASE |
| | | | | 7.41 | 1.90 | .02 | 2.54 | 1.02 | .75 | 1.04 | 2.19 AMP |
| | | | | 196.16 | 237.17 | 331.42 | 20.17 | 113.06 | 109.03 | 127.43 | 160.12 PHASE |
| | | | | 9.17 | 2.33 | 1.41 | 2.03 | 2.30 | .95 | 1.20 | 2.32 AMP |
| | | | | 202.94 | 240.19 | 340.04 | 43.42 | 134.05 | 137.03 | 150.00 | 192.00 PHASE |
| | | | | 11.51 | 3.00 | 2.29 | 3.22 | 2.77 | 1.06 | 1.00 | 2.61 AMP |
| | | | | 203.39 | 235.25 | 349.24 | 35.64 | 120.39 | 140.42 | 153.40 | 102.04 PHASE |
| | | | | 13.00 | 3.00 | 2.97 | 3.44 | 2.70 | 1.48 | 1.71 | 2.97 AMP |
| | | | | 200.29 | 231.00 | 347.45 | 27.47 | 121.62 | 159.59 | 146.70 | 165.00 PHASE |
| | | | | 2.50 | 1.09 | .55 | .64 | .53 | .00 | .44 | .33 AMP |
| | | | | 150.13 | 260.50 | 219.75 | 70.00 | 204.33 | 202.00 | 60.00 | 197.66 PHASE |
| | | | | 3.11 | .97 | .36 | .75 | .45 | .17 | .36 | .42 AMP |
| | | | | 175.53 | 250.76 | 201.52 | 55.72 | 172.40 | 233.37 | 73.07 | 196.50 PHASE |
| | | | | 3.00 | .93 | .10 | 1.00 | .57 | .14 | .49 | .59 AMP |
| | | | | 104.02 | 254.50 | 204.00 | 40.35 | 161.42 | 320.53 | 90.10 | 107.29 PHASE |
| | | | | 4.95 | 1.00 | .12 | 1.26 | .71 | .10 | .35 | .02 AMP |
| | | | | 203.03 | 255.44 | 324.44 | 57.02 | 142.91 | 166.03 | 132.60 | 206.69 PHASE |
| | | | | 6.22 | 1.12 | .56 | 1.46 | 1.16 | .23 | .29 | .96 AMP |
| | | | | 202.54 | 241.24 | 330.46 | 40.49 | 120.69 | 155.00 | 117.33 | 169.42 PHASE |
| | | | | 7.05 | 1.39 | 1.02 | 1.66 | 1.40 | .22 | .24 | 1.14 AMP |
| | | | | 204.03 | 232.91 | 340.52 | 32.05 | 116.10 | 151.29 | 90.00 | 155.00 PHASE |
| | | | | 10.12 | 1.04 | 1.56 | 1.02 | 1.00 | .40 | .16 | 1.22 AMP |
| | | | | 204.19 | 222.29 | 341.37 | 13.50 | 96.55 | 126.66 | 82.63 | 122.70 PHASE |
| | | | | 12.73 | 2.47 | 2.07 | 2.10 | 2.07 | .00 | .55 | 1.45 AMP |
| | | | | 205.24 | 222.01 | 352.20 | 13.20 | 96.06 | 130.06 | 150.16 | 140.21 PHASE |
| | | | | 14.23 | 2.79 | 2.30 | 2.17 | 2.00 | 1.02 | .49 | 1.54 AMP |
| | | | | 202.74 | 219.06 | 346.79 | 356.21 | 01.10 | 134.90 | 152.10 | 100.05 PHASE |

TABLE VIII.- Continued

(b) $\mu = 0.30$; $M_T = 0.62$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CG/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 477 | -1.0 | 2.1 | 6.0 | .01654 | -.00102 | .00198 |
| 478 | -1.4 | 3.1 | 8.0 | .02957 | -.00352 | .00290 |
| 479 | -1.0 | 4.7 | 9.8 | .03946 | -.00547 | .00354 |
| 480 | -1.2 | 5.5 | 12.0 | .05765 | -.00854 | .00481 |
| 481 | -2.0 | 6.4 | 13.8 | .06867 | -.01080 | .00595 |
| 482 | -2.5 | 7.2 | 15.9 | .08355 | -.01527 | .00721 |
| 483 | -3.3 | 8.1 | 18.0 | .09570 | -.01590 | .00866 |
| 484 | -3.6 | 8.6 | 19.0 | .10242 | -.01722 | .00965 |
| 485 | .2 | 2.8 | 3.9 | .01668 | .00005 | .00159 |
| 486 | .1 | 3.2 | 6.1 | .03625 | -.00165 | .00211 |
| 487 | -.4 | 3.9 | 7.9 | .04917 | -.00285 | .00266 |
| 488 | -1.3 | 5.4 | 10.2 | .06186 | -.00454 | .00353 |
| 489 | -1.9 | 6.2 | 12.0 | .07569 | -.00589 | .00427 |
| 490 | -2.4 | 6.7 | 13.8 | .08915 | -.00695 | .00525 |
| 491 | -2.7 | 7.2 | 14.6 | .09475 | -.00767 | .00574 |
| 492 | -3.1 | 8.0 | 15.9 | .10062 | -.00886 | .00660 |
| 493 | .6 | 2.5 | 2.0 | .02252 | .00139 | .00121 |
| 494 | .3 | 2.8 | 4.0 | .03996 | .00174 | .00128 |
| 495 | -.2 | 3.7 | 6.1 | .05499 | .00180 | .00155 |
| 496 | -1.1 | 5.0 | 8.0 | .06609 | .00108 | .00208 |
| 497 | -1.6 | 5.8 | 9.9 | .07946 | .00087 | .00265 |
| 498 | -2.3 | 6.8 | 12.0 | .09256 | .00056 | .00340 |
| 499 | -2.7 | 7.3 | 12.8 | .09665 | -.00003 | .00391 |

TABLE VIII.- Continued

(b) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| RUN NO | | 16 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 477 | 44.82 | 12.35 | 585 | 5.93 156.76 | 3.71 348.28 | 4.21 37.93 | 1.75 359.27 | 3.75 98.22 | 1.24 332.55 | .82 259.26 | .86 91.45 | AMP PHASE |
| 478 | 45.82 | 12.78 | 584 | 6.22 153.89 | 3.85 343.21 | 4.35 29.45 | 1.92 348.57 | 3.56 89.82 | 1.35 322.15 | .86 243.28 | .88 78.93 | AMP PHASE |
| 479 | 47.22 | 12.77 | 585 | 6.73 148.93 | 3.86 346.14 | 4.17 28.95 | 1.94 337.15 | 3.45 72.55 | 1.38 312.84 | .66 227.19 | .67 54.88 | AMP PHASE |
| 480 | 49.37 | 13.37 | 585 | 6.43 137.15 | 4.21 346.97 | 4.87 6.91 | 2.28 321.28 | 3.91 68.28 | 1.32 288.11 | .64 198.71 | .66 22.87 | AMP PHASE |
| 481 | 50.98 | 14.58 | 584 | 6.34 127.38 | 4.46 354.65 | 3.79 3.83 | 2.88 326.65 | 3.67 71.77 | 1.32 287.73 | .68 191.18 | .72 33.22 | AMP PHASE |
| 482 | 52.93 | 14.84 | 584 | 6.58 188.44 | 4.82 356.88 | 3.53 345.83 | 2.82 383.16 | 3.82 67.39 | 1.31 264.74 | .83 176.17 | .61 355.79 | AMP PHASE |
| 483 | 54.53 | 15.98 | 585 | 7.22 88.66 | 5.48 359.34 | 3.41 324.17 | 1.82 276.13 | 3.65 69.61 | 1.33 243.84 | .97 166.22 | .61 326.82 | AMP PHASE |
| 484 | 55.43 | 17.29 | 586 | 8.55 75.88 | 6.87 58 | 3.55 311.13 | 1.95 257.75 | 3.46 72.67 | 1.47 235.22 | .95 172.85 | .57 294.46 | AMP PHASE |
| 485 | 43.19 | 17.18 | 585 | 7.68 155.48 | 4.75 332.18 | 5.36 48.73 | 2.59 355.84 | 4.76 114.12 | 1.77 347.11 | 1.32 258.47 | 1.71 123.42 | AMP PHASE |
| 486 | 45.15 | 16.43 | 584 | 7.45 156.68 | 4.72 331.15 | 5.79 48.87 | 2.64 341.93 | 4.45 185.49 | 1.98 334.24 | 1.58 246.91 | 1.46 125.36 | AMP PHASE |
| 487 | 46.64 | 14.98 | 584 | 7.19 151.77 | 4.59 332.94 | 5.55 34.63 | 2.55 331.26 | 4.55 94.76 | 1.77 323.16 | 1.39 243.88 | 1.29 126.97 | AMP PHASE |
| 488 | 48.43 | 14.93 | 585 | 6.99 143.57 | 4.58 336.53 | 5.28 24.99 | 2.52 315.12 | 4.63 85.13 | 1.67 384.94 | 1.51 228.73 | 1.11 117.42 | AMP PHASE |
| 489 | 49.94 | 14.67 | 585 | 6.68 136.61 | 4.38 343.85 | 4.77 24.34 | 2.24 318.66 | 4.93 94.84 | 1.38 384.95 | 1.48 238.32 | 1.22 118.26 | AMP PHASE |
| 490 | 51.66 | 15.84 | 585 | 6.89 128.26 | 4.25 346.88 | 4.39 18.13 | 2.23 288.99 | 4.68 84.76 | 1.52 276.37 | 1.88 288.55 | 1.34 133.66 | AMP PHASE |
| 491 | 52.36 | 15.78 | 584 | 6.25 112.18 | 4.38 358.86 | 4.23 3.41 | 2.21 281.95 | 4.69 89.83 | 1.44 266.26 | .92 282.62 | 1.74 135.16 | AMP PHASE |
| 492 | 53.15 | 16.62 | 584 | 6.44 182.28 | 4.73 357.76 | 4.84 354.98 | 2.27 276.18 | 4.91 96.76 | 1.47 261.54 | 2.84 284.32 | 1.88 144.69 | AMP PHASE |
| 493 | 42.63 | 28.76 | 583 | 8.65 156.43 | 6.15 326.79 | 6.71 68.99 | 3.71 5.34 | 4.98 124.92 | 2.25 347.81 | 1.72 257.98 | 2.25 137.23 | AMP PHASE |
| 494 | 44.42 | 28.26 | 585 | 8.51 154.25 | 6.85 319.86 | 6.36 52.65 | 3.48 345.54 | 4.48 93.76 | 2.39 313.51 | 1.92 235.52 | 1.65 121.58 | AMP PHASE |
| 495 | 46.87 | 18.55 | 584 | 8.22 154.19 | 5.66 327.13 | 6.88 57.41 | 3.86 356.48 | 4.38 183.72 | 2.16 331.77 | 1.81 261.57 | 1.17 155.21 | AMP PHASE |
| 496 | 47.52 | 18.56 | 584 | 7.99 146.48 | 5.26 327.64 | 6.84 48.11 | 2.87 348.86 | 4.47 84.88 | 2.22 315.58 | 1.87 258.96 | .88 282.21 | AMP PHASE |
| 497 | 49.81 | 18.59 | 585 | 7.35 148.83 | 4.76 332.88 | 5.67 44.25 | 4.47 345.98 | 2.54 85.34 | 2.58 381.49 | 2.83 251.49 | 1.82 235.88 | AMP PHASE |
| 498 | 58.32 | 28.31 | 585 | 7.28 128.38 | 4.97 339.87 | 5.26 33.32 | 2.42 332.71 | 2.98 86.12 | 1.69 279.57 | 1.57 232.49 | 3.14 229.34 | AMP PHASE |
| 499 | 58.89 | 21.89 | 585 | 7.83 128.28 | 4.88 338.12 | 5.14 19.74 | 2.36 315.67 | 2.94 73.94 | 1.76 254.21 | 1.68 217.23 | 3.78 289.72 | AMP PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|-----------------|-----------------|-----------------|---------------|----------------|----------------|----------------|----------------|--------------|
| RUN NO | | 16 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 477 | 58.87 | 16.38 | 585 | 3.52 272.88 | 2.18 133.15 | 4.64 272.56 | 2.53 66.54 | .68 136.75 | 3.38 348.87 | 1.63 98.16 | .63 152.88 | AMP PHASE |
| 478 | 51.81 | 19.54 | 584 | 7.42 313.52 | 3.94 131.69 | 7.37 248.55 | 3.99 45.42 | 1.54 329.31 | 2.96 94.64 | 2.72 97.68 | .75 145.74 | AMP PHASE |
| 479 | 52.82 | 32.38 | 585 | 17.41 333.95 | 6.53 143.66 | 11.26 234.94 | 4.47 33.41 | 2.54 333.45 | 2.58 138.35 | 2.59 111.89 | .82 139.88 | AMP PHASE |
| 488 | 52.45 | 58.34 | 585 | 34.88 353.99 | 7.17 152.67 | 18.42 231.17 | 5.88 31.49 | 2.31 2.79 | 2.86 339.61 | 1.61 388.93 | .73 159.58 | AMP PHASE |
| 481 | 52.69 | 76.13 | 584 | 47.15 359.44 | 7.68 169.22 | 22.61 237.96 | 6.26 43.11 | 1.44 9.25 | 3.33 2.21 | 2.59 338.27 | .59 178.24 | AMP PHASE |
| 482 | 52.36 | 97.98 | 584 | 65.39 1.22 | 7.49 177.27 | 27.86 235.88 | 6.14 28.19 | 2.88 252.92 | 3.98 15.71 | 2.95 354.98 | .44 171.68 | AMP PHASE |
| 483 | 52.48 | 114.15 | 585 | 82.53 1.13 | 8.88 192.67 | 31.23 232.89 | 6.57 21.88 | 4.87 239.61 | 5.58 42.51 | 2.43 19.88 | .68 147.81 | AMP PHASE |
| 484 | 53.61 | 125.38 | 586 | 97.47 3.68 | 9.99 288.79 | 32.98 232.18 | 6.87 7.32 | 6.57 258.23 | 6.61 45.76 | 1.34 23.91 | .45 76.23 | AMP PHASE |
| 485 | 49.99 | 28.52 | 585 | 7.29 281.22 | 4.78 122.67 | 6.87 274.38 | 2.18 62.52 | 1.88 148.85 | 1.48 66.66 | 3.35 111.32 | .85 182.26 | AMP PHASE |
| 486 | 49.95 | 36.12 | 584 | 15.42 318.52 | 9.78 128.78 | 18.61 255.22 | 4.84 32.84 | 2.16 351.33 | 4.25 146.38 | 4.88 96.91 | .73 173.64 | AMP PHASE |
| 487 | 49.94 | 43.84 | 584 | 23.55 334.97 | 11.29 137.17 | 14.27 243.85 | 5.65 37.48 | 2.29 11.41 | 2.85 185.46 | 2.54 85.31 | 1.28 181.57 | AMP PHASE |
| 488 | 49.91 | 57.51 | 585 | 34.16 348.11 | 11.98 143.88 | 18.71 237.81 | 5.53 35.81 | 2.54 8.92 | 1.96 264.97 | 1.77 27.38 | .97 178.29 | AMP PHASE |
| 489 | 49.27 | 73.28 | 585 | 44.49 347.17 | 12.38 151.62 | 22.58 242.15 | 5.74 43.29 | 3.88 13.67 | 3.26 318.95 | 2.95 352.19 | .84 187.88 | AMP PHASE |
| 498 | 47.78 | 91.64 | 585 | 59.52 353.14 | 11.87 158.19 | 26.37 238.99 | 5.77 39.23 | 2.67 22.55 | 4.73 345.76 | 6.16 338.82 | .53 284.14 | AMP PHASE |
| 491 | 46.83 | 188.54 | 584 | 66.13 354.79 | 11.46 151.94 | 28.82 248.37 | 5.99 34.56 | 2.48 6.14 | 6.81 354.18 | 6.82 342.68 | .69 235.95 | AMP PHASE |
| 492 | 46.59 | 111.78 | 584 | 75.88 356.38 | 18.26 158.85 | 38.11 245.88 | 5.73 38.75 | 2.79 353.22 | 6.64 348.18 | 7.61 348.18 | .68 298.79 | AMP PHASE |
| 493 | 48.59 | 29.35 | 583 | 12.86 277.18 | 5.87 127.72 | 7.82 279.91 | 2.32 84.32 | 2.97 317.93 | 1.98 257.71 | 3.67 116.47 | 1.49 215.35 | AMP PHASE |
| 494 | 47.63 | 36.82 | 585 | 18.11 298.18 | 18.33 134.82 | 18.52 261.85 | 2.88 15.59 | 4.41 293.28 | 1.87 171.68 | 3.52 87.31 | 1.87 175.64 | AMP PHASE |
| 495 | 46.42 | 47.12 | 584 | 26.58 325.28 | 13.33 147.72 | 13.55 256.16 | 4.22 49.37 | 4.93 318.61 | 4.82 234.49 | 3.25 121.27 | .78 284.18 | AMP PHASE |
| 496 | 45.39 | 55.16 | 584 | 34.66 338.18 | 14.17 148.88 | 17.34 245.88 | 4.58 46.91 | 5.18 312.72 | 4.81 251.53 | 2.77 114.43 | .37 199.89 | AMP PHASE |
| 497 | 44.13 | 67.25 | 585 | 45.72 339.88 | 14.86 149.85 | 19.87 258.38 | 5.58 53.56 | 4.56 321.99 | 3.19 313.89 | 3.82 48.28 | .65 277.58 | AMP PHASE |
| 498 | 42.53 | 88.27 | 585 | 57.95 347.17 | 15.23 151.28 | 24.88 258.57 | 6.89 49.93 | 4.41 325.38 | 5.84 343.84 | 5.28 2.88 | 1.74 297.78 | AMP PHASE |
| 499 | 41.93 | 93.85 | 585 | 62.51 345.16 | 14.36 146.19 | 25.89 241.42 | 5.89 33.26 | 3.98 319.36 | 7.42 348.27 | 7.28 347.48 | 2.89 291.76 | AMP PHASE |

TABLE VIII.- Continued

(b) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 16 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 477 | .88 | 5.87 | 585 | 2.68 | 1.19 | .31 | .84 | .91 | .53 | .25 | .26 | AMP |
| 478 | -.88 | 4.93 | 584 | 312.18 | 121.88 | 27.41 | 319.95 | 39.64 | 178.19 | 328.32 | 182.18 | PHASE |
| 479 | -2.41 | 4.98 | 585 | 2.58 | .98 | .19 | .85 | .93 | .58 | .18 | .35 | AMP |
| 480 | -4.86 | 6.84 | 585 | 329.79 | 125.38 | 7.99 | 383.49 | 41.89 | 192.86 | 323.89 | 166.98 | PHASE |
| 481 | -6.69 | 6.81 | 584 | 2.83 | .75 | .14 | 1.81 | .98 | .42 | .23 | .33 | AMP |
| 482 | -8.96 | 9.11 | 584 | 342.46 | 138.28 | 298.59 | 292.46 | 35.78 | 177.28 | 336.22 | 144.54 | PHASE |
| 483 | -11.12 | 11.61 | 585 | 3.64 | .77 | .35 | 1.25 | .98 | .64 | .41 | .19 | AMP |
| 484 | -12.57 | 13.48 | 586 | 358.67 | 131.23 | 259.33 | 286.98 | 24.58 | 169.96 | 383.25 | 129.88 | PHASE |
| 485 | 1.98 | 6.69 | 585 | 4.42 | .73 | .59 | 1.27 | .99 | .71 | .52 | .14 | AMP |
| 486 | -.24 | 6.66 | 584 | 9.88 | 142.84 | 256.73 | 293.81 | 41.71 | 189.48 | 388.62 | 129.48 | PHASE |
| 487 | -2.81 | 6.71 | 584 | 14.36 | 135.78 | 244.95 | 283.76 | 37.98 | 186.99 | 298.15 | 17.38 | PHASE |
| 488 | -4.11 | 7.85 | 585 | 7.58 | 1.14 | 1.58 | 1.22 | 1.44 | .52 | .71 | .28 | AMP |
| 489 | -5.96 | 8.16 | 585 | 16.37 | 124.79 | 233.98 | 271.62 | 36.78 | 166.43 | 287.21 | 4.58 | PHASE |
| 490 | -8.35 | 18.48 | 585 | 9.89 | 1.28 | 1.69 | 1.84 | 1.71 | .55 | .56 | .18 | AMP |
| 491 | -9.58 | 11.38 | 584 | 14.81 | 98.24 | 238.61 | 273.36 | 39.49 | 136.41 | 272.73 | 299.64 | PHASE |
| 492 | -18.78 | 12.89 | 584 | 3.22 | 1.89 | .34 | 1.17 | 1.12 | .54 | .17 | .48 | AMP |
| 493 | 2.73 | 7.52 | 583 | 318.21 | 122.98 | 51.28 | 322.68 | 62.14 | 178.36 | .89 | 191.69 | PHASE |
| 494 | -.64 | 7.62 | 585 | 3.18 | 1.66 | .12 | 1.31 | 1.89 | .38 | .21 | .46 | AMP |
| 495 | -1.53 | 7.86 | 584 | 331.58 | 122.86 | 45.47 | 383.13 | 59.11 | 281.98 | 344.58 | 194.82 | PHASE |
| 496 | -3.43 | 8.36 | 584 | 3.41 | 1.52 | .13 | 1.38 | 1.17 | .52 | .48 | .51 | AMP |
| 497 | -5.77 | 9.65 | 585 | 343.86 | 121.44 | 298.93 | 296.97 | 59.57 | 187.88 | 341.96 | 197.18 | PHASE |
| 498 | -8.36 | 11.62 | 585 | 4.84 | 1.33 | .26 | 1.42 | 1.19 | .48 | .57 | .39 | AMP |
| 499 | -9.43 | 13.21 | 585 | 354.44 | 121.78 | 251.93 | 289.23 | 54.78 | 182.34 | 322.59 | 195.62 | PHASE |
| | | | | 4.86 | 1.34 | .52 | 1.49 | 1.35 | .58 | .71 | .43 | AMP |
| | | | | 3.87 | 123.73 | 244.74 | 293.41 | 62.16 | 195.71 | 329.91 | 198.29 | PHASE |
| | | | | 9.54 | 117.22 | 239.39 | 289.98 | 54.81 | 281.24 | 312.93 | 197.31 | PHASE |
| | | | | 7.39 | 1.99 | 1.32 | 1.58 | 1.45 | .45 | .82 | .66 | AMP |
| | | | | 11.64 | 118.58 | 239.12 | 289.35 | 53.48 | 238.15 | 323.98 | 189.61 | PHASE |
| | | | | 8.52 | 2.25 | 1.54 | 1.51 | 1.49 | .39 | .85 | .75 | AMP |
| | | | | 13.98 | 116.61 | 248.46 | 298.38 | 54.37 | 279.84 | 337.39 | 281.17 | PHASE |
| | | | | 3.67 | 2.32 | .44 | 1.71 | 1.18 | .45 | .21 | .65 | AMP |
| | | | | 318.84 | 139.58 | 87.69 | 338.43 | 84.72 | 199.28 | 21.62 | 227.82 | PHASE |
| | | | | 3.66 | 2.86 | .26 | 1.58 | .98 | .45 | .32 | .49 | AMP |
| | | | | 331.81 | 129.88 | 71.83 | 315.11 | 46.66 | 213.13 | 322.78 | 197.58 | PHASE |
| | | | | 4.85 | 1.93 | .89 | 1.55 | 1.81 | .43 | .68 | .29 | AMP |
| | | | | 347.39 | 132.68 | 348.33 | 328.49 | 66.32 | 249.56 | 339.98 | 241.52 | PHASE |
| | | | | 4.65 | 1.89 | .17 | 1.76 | .98 | .32 | .82 | .38 | AMP |
| | | | | 354.28 | 128.26 | 267.86 | 389.85 | 52.85 | 242.25 | 342.86 | 291.98 | PHASE |
| | | | | 5.88 | 2.89 | .51 | 1.85 | .89 | .34 | .88 | .75 | AMP |
| | | | | 2.43 | 123.95 | 254.81 | 388.69 | 44.88 | 287.64 | 347.64 | 298.16 | PHASE |
| | | | | 7.68 | 2.47 | .83 | 2.89 | .98 | .68 | 1.82 | 1.16 | AMP |
| | | | | 7.54 | 128.84 | 252.57 | 381.44 | 11.47 | 342.35 | 343.52 | 296.18 | PHASE |
| | | | | 8.42 | 2.62 | .93 | 2.16 | 1.86 | .72 | 1.17 | 1.54 | AMP |
| | | | | 5.53 | 111.48 | 242.62 | 288.67 | 353.57 | 322.78 | 319.27 | 274.19 | PHASE |

TABLE VIII.- Continued

(b) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO | | 15 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | 28.82 | 14.66 | 585 | 9.65 | 5.21 | 5.47 | 1.27 | 2.83 | .32 | .29 | .29 AMP |
| | | | | 145.35 | 339.47 | 42.33 | 344.95 | 98.87 | 388.32 | 239.75 | 244.17 PHASE |
| 478 | 38.45 | 15.88 | 584 | 18.46 | 5.45 | 6.88 | 1.27 | 1.84 | .61 | .27 | .24 AMP |
| | | | | 145.42 | 338.87 | 34.63 | 335.92 | 92.55 | 298.33 | 248.57 | 231.58 PHASE |
| 479 | 31.93 | 16.27 | 585 | 11.38 | 5.54 | 6.28 | 1.24 | 1.75 | .52 | .25 | .28 AMP |
| | | | | 143.62 | 339.68 | 28.37 | 328.27 | 79.13 | 289.88 | 232.68 | 287.59 PHASE |
| 480 | 33.94 | 18.21 | 585 | 12.35 | 5.87 | 6.52 | 1.38 | 2.84 | .49 | .34 | .27 AMP |
| | | | | 142.65 | 337.88 | 28.61 | 389.54 | 98.39 | 268.42 | 225.73 | 162.33 PHASE |
| 481 | 35.58 | 18.36 | 584 | 12.85 | 6.38 | 6.52 | 1.27 | 1.98 | .54 | .35 | .38 AMP |
| | | | | 144.27 | 343.88 | 25.29 | 313.84 | 78.85 | 254.66 | 263.28 | 195.68 PHASE |
| 482 | 37.46 | 19.45 | 584 | 13.55 | 6.52 | 6.36 | 1.17 | 2.18 | .58 | .24 | .31 AMP |
| | | | | 141.74 | 342.25 | 16.62 | 292.79 | 65.39 | 225.51 | 271.61 | 159.16 PHASE |
| 483 | 39.18 | 28.88 | 585 | 13.89 | 6.87 | 5.98 | 1.88 | 1.92 | .71 | .16 | .34 AMP |
| | | | | 138.25 | 342.85 | 8.31 | 271.19 | 64.63 | 218.13 | 262.88 | 135.37 PHASE |
| 484 | 39.92 | 19.87 | 586 | 14.86 | 7.22 | 5.39 | .96 | 1.82 | .78 | .85 | .37 AMP |
| | | | | 135.38 | 343.38 | 2.61 | 254.31 | 69.27 | 284.89 | 185.75 | 184.83 PHASE |
| 485 | 27.18 | 19.85 | 585 | 11.37 | 6.79 | 6.91 | 1.75 | 2.56 | .54 | .34 | .46 AMP |
| | | | | 143.15 | 328.44 | 49.51 | 344.87 | 116.86 | 321.56 | 258.67 | 278.22 PHASE |
| 486 | 28.78 | 21.24 | 584 | 12.28 | 7.89 | 7.78 | 1.66 | 2.39 | .64 | .37 | .32 AMP |
| | | | | 143.99 | 324.99 | 42.66 | 334.48 | 111.55 | 314.85 | 236.85 | 264.86 PHASE |
| 487 | 38.23 | 28.97 | 584 | 12.82 | 7.88 | 7.82 | 1.63 | 2.24 | .54 | .38 | .21 AMP |
| | | | | 143.44 | 325.85 | 37.38 | 323.84 | 188.84 | 388.76 | 213.18 | 277.86 PHASE |
| 488 | 32.11 | 28.76 | 585 | 13.45 | 6.87 | 7.89 | 1.48 | 2.28 | .56 | .43 | .14 AMP |
| | | | | 141.51 | 326.56 | 31.18 | 387.33 | 87.86 | 273.94 | 198.22 | 278.78 PHASE |
| 489 | 33.58 | 21.87 | 585 | 13.79 | 6.74 | 7.84 | 1.29 | 2.39 | .55 | .22 | .36 AMP |
| | | | | 142.17 | 329.96 | 32.91 | 388.58 | 97.18 | 265.47 | 215.18 | 266.38 PHASE |
| 490 | 35.23 | 28.56 | 585 | 13.99 | 6.21 | 7.67 | 1.26 | 2.16 | .64 | .33 | .14 AMP |
| | | | | 139.12 | 327.61 | 24.42 | 272.31 | 98.21 | 234.81 | 194.98 | 292.34 PHASE |
| 491 | 35.88 | 28.57 | 584 | 14.21 | 6.22 | 7.58 | 1.29 | 2.22 | .69 | .33 | .28 AMP |
| | | | | 137.75 | 328.75 | 21.41 | 262.98 | 95.62 | 221.89 | 184.84 | 311.43 PHASE |
| 492 | 36.79 | 21.82 | 584 | 14.35 | 6.17 | 7.28 | 1.28 | 2.33 | .78 | .38 | .22 AMP |
| | | | | 137.13 | 334.82 | 28.11 | 256.83 | 183.88 | 214.78 | 183.41 | 329.84 PHASE |
| 493 | 25.44 | 24.92 | 583 | 12.93 | 8.86 | 8.84 | 2.43 | 3.83 | .55 | .57 | .57 AMP |
| | | | | 145.39 | 326.39 | 66.57 | 352.98 | 131.18 | 358.74 | 257.58 | 297.33 PHASE |
| 494 | 27.87 | 25.84 | 585 | 13.84 | 8.75 | 7.87 | 2.12 | 2.64 | .57 | .38 | .39 AMP |
| | | | | 143.87 | 317.71 | 51.17 | 341.32 | 183.68 | 317.59 | 284.27 | 278.21 PHASE |
| 495 | 28.73 | 24.46 | 584 | 14.47 | 8.37 | 7.84 | 1.88 | 2.34 | .44 | .33 | .21 AMP |
| | | | | 146.51 | 323.42 | 55.77 | 352.12 | 114.98 | 351.81 | 218.73 | 316.29 PHASE |
| 496 | 38.25 | 23.76 | 584 | 14.91 | 7.95 | 8.28 | 1.67 | 2.33 | .42 | .48 | .86 AMP |
| | | | | 143.62 | 321.98 | 47.14 | 345.29 | 93.38 | 328.87 | 282.98 | 6.82 PHASE |
| 497 | 31.88 | 23.13 | 585 | 15.83 | 7.32 | 8.38 | 1.34 | 2.14 | .51 | .51 | .51 AMP |
| | | | | 142.97 | 323.88 | 48.87 | 347.15 | 93.59 | 276.66 | 286.99 | 91.79 PHASE |
| 498 | 33.14 | 22.88 | 585 | 15.52 | 7.65 | 8.43 | 1.38 | 1.54 | .42 | .48 | .63 AMP |
| | | | | 141.18 | 324.77 | 37.81 | 338.93 | 93.89 | 232.23 | 216.43 | 79.37 PHASE |
| 499 | 33.79 | 22.74 | 585 | 15.49 | 7.36 | 8.58 | 1.24 | 1.59 | .56 | .51 | .85 AMP |
| | | | | 137.62 | 328.28 | 26.48 | 316.21 | 88.34 | 285.87 | 191.72 | 55.22 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO | | 16 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | 22.48 | 19.42 | 585 | 4.87 | 2.23 | 3.42 | 3.45 | .93 | 4.81 | 2.58 | .73 AMP |
| | | | | 275.92 | 128.69 | 292.44 | 59.74 | 148.37 | 345.82 | 89.91 | 183.23 PHASE |
| 478 | 22.99 | 21.11 | 584 | 7.15 | 3.59 | 5.29 | 5.13 | 1.18 | 5.66 | 4.44 | .88 AMP |
| | | | | 386.64 | 131.89 | 266.81 | 49.17 | 318.28 | 79.16 | 91.67 | 158.37 PHASE |
| 479 | 22.94 | 27.87 | 585 | 14.89 | 5.48 | 8.28 | 5.95 | 2.55 | 2.26 | 4.18 | .97 AMP |
| | | | | 327.21 | 141.27 | 247.71 | 36.89 | 325.19 | 133.49 | 112.97 | 135.86 PHASE |
| 480 | 22.73 | 49.87 | 585 | 26.35 | 5.94 | 13.98 | 7.64 | 2.78 | 4.53 | 3.74 | 1.58 AMP |
| | | | | 346.38 | 148.51 | 241.83 | 31.15 | 359.85 | 326.75 | 279.43 | 156.84 PHASE |
| 481 | 22.25 | 63.55 | 584 | 35.45 | 6.23 | 17.27 | 8.52 | 1.98 | 4.82 | 5.51 | 1.44 AMP |
| | | | | 351.96 | 164.47 | 248.84 | 48.97 | 9.28 | 347.87 | 387.72 | 171.67 PHASE |
| 482 | 28.87 | 79.29 | 584 | 49.12 | 6.24 | 22.21 | 9.23 | 1.68 | 4.81 | 5.54 | .89 AMP |
| | | | | 354.84 | 178.31 | 245.55 | 26.44 | 265.33 | .66 | 332.75 | 151.58 PHASE |
| 483 | 19.55 | 87.97 | 585 | 62.88 | 7.88 | 25.63 | 18.15 | 3.91 | 6.16 | 4.21 | 1.18 AMP |
| | | | | 354.14 | 183.98 | 242.14 | 17.32 | 241.64 | 35.84 | 359.88 | 186.12 PHASE |
| 484 | 28.19 | 95.86 | 586 | 72.16 | 9.24 | 28.52 | 9.88 | 7.34 | 8.12 | 2.34 | 2.16 AMP |
| | | | | 357.43 | 188.79 | 239.99 | 2.17 | 261.87 | 39.32 | 18.68 | 48.39 PHASE |
| 485 | 22.64 | 28.55 | 585 | 7.37 | 4.24 | 4.95 | 3.51 | 1.58 | 1.96 | 5.53 | .89 AMP |
| | | | | 279.42 | 111.54 | 283.95 | 54.83 | 159.93 | 48.87 | 184.58 | 233.35 PHASE |
| 486 | 22.22 | 38.84 | 584 | 13.48 | 8.83 | 7.84 | 6.58 | 1.31 | 4.78 | 6.72 | .51 AMP |
| | | | | 318.23 | 124.98 | 266.99 | 34.73 | 332.43 | 139.26 | 92.81 | 293.37 PHASE |
| 487 | 21.64 | 39.57 | 584 | 19.25 | 9.52 | 18.73 | 7.52 | 1.43 | 1.71 | 3.83 | .85 AMP |
| | | | | 325.89 | 133.28 | 254.82 | 38.24 | .62 | 288.43 | 88.12 | 162.72 PHASE |
| 488 | 28.82 | 58.86 | 585 | 27.26 | 18.21 | 14.48 | 7.84 | 2.89 | 3.59 | 2.32 | .77 AMP |
| | | | | 332.15 | 139.15 | 249.72 | 35.81 | 1.18 | 277.64 | 22.18 | 129.94 PHASE |
| 489 | 19.51 | 59.86 | 585 | 35.24 | 18.98 | 17.86 | 8.56 | 2.75 | 5.69 | 4.52 | .81 AMP |
| | | | | 339.57 | 146.72 | 254.29 | 43.62 | 9.35 | 317.19 | 339.51 | 156.97 PHASE |
| 490 | 16.98 | 77.93 | 585 | 46.83 | 11.27 | 21.74 | 9.88 | 2.54 | 7.63 | 18.15 | .31 AMP |
| | | | | 345.88 | 145.82 | 251.72 | 37.71 | 14.69 | 348.42 | 338.17 | 33.82 PHASE |
| 491 | 15.58 | 84.43 | 584 | 52.27 | 11.31 | 23.63 | 9.46 | 2.56 | 9.28 | 11.29 | .89 AMP |
| | | | | 347.69 | 146.47 | 253.87 | 33.89 | 351.69 | 348.75 | 335.39 | 384.89 PHASE |
| 492 | 14.71 | 91.61 | 584 | 59.17 | 18.73 | 25.96 | 9.43 | 3.27 | 9.94 | 12.68 | .78 AMP |
| | | | | 349.66 | 152.88 | 255.19 | 38.33 | 341.83 | 1.48 | 342.69 | 333.38 PHASE |
| 493 | 21.78 | 25.47 | 583 | 11.62 | 5.35 | 6.88 | 3.59 | 2.72 | 5.83 | 2.42 | .42 AMP |
| | | | | 275.96 | 119.13 | 284.84 | 71.38 | 389.36 | 268.62 | 118.51 | 232.44 PHASE |
| 494 | 28.67 | 34.45 | 585 | 16.34 | 8.98 | 8.28 | 3.88 | 4.86 | 1.55 | 6.12 | 1.43 AMP |
| | | | | 294.29 | 129.99 | 268.62 | 31.17 | 282.88 | 177.35 | 79.52 | 281.91 PHASE |
| 495 | 19.11 | 44.74 | 584 | 22.66 | 11.92 | 18.61 | 6.52 | 5.58 | 4.39 | 5.89 | .12 AMP |
| | | | | 318.86 | 143.47 | 267.26 | 54.65 | 384.16 | 248.19 | 121.47 | 129.82 PHASE |
| 496 | 17.56 | 58.89 | 584 | 29.86 | 12.97 | 13.79 | 7.27 | 5.89 | 4.93 | 5.23 | 1.35 AMP |
| | | | | 324.23 | 143.87 | 261.92 | 52.59 | 383.89 | 262.41 | 128.37 | 93.18 PHASE |
| 497 | 15.38 | 68.81 | 585 | 37.77 | 14.15 | 15.98 | 8.95 | 5.62 | 4.78 | 3.82 | 1.81 AMP |
| | | | | 333.96 | 144.87 | 264.58 | 57.42 | 315.98 | 328.32 | 58.88 | 77.97 PHASE |
| 498 | 12.51 | 76.29 | 585 | 47.81 | 15.85 | 19.94 | 9.88 | 6.59 | 8.89 | 7.38 | 2.34 AMP |
| | | | | 341.38 | 146.84 | 255.88 | 52.54 | 324.17 | 348.92 | 355.33 | 29.67 PHASE |
| 499 | 11.51 | 76.66 | 585 | 51.67 | 14.61 | 21.77 | 9.93 | 6.24 | 11.56 | 18.31 | .88 AMP |
| | | | | 339.38 | 141.74 | 256.39 | 36.12 | 319.92 | 352.58 | 344.13 | 4.92 PHASE |

TABLE VIII.- Continued

(b) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|----------------|----------------|----------------|----------------|---------------|---------------|---------------|----------------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | .49 | 4.91 | 585 | 2.75 309.86 | 1.34 184.81 | .22 14.52 | .74 298.47 | .88 3.53 | .48 138.33 | .21 283.84 | .19 132.88 |
| 478 | -1.35 | 4.83 | 584 | 2.73 326.87 | 1.87 188.32 | .77 351.61 | .82 274.56 | .81 5.77 | .46 158.84 | .17 283.98 | .24 115.12 |
| 479 | -2.88 | 4.79 | 585 | 3.84 337.77 | .98 111.62 | .18 288.15 | .98 263.24 | .81 358.33 | .39 134.46 | .22 292.57 | .25 98.76 |
| 480 | -5.34 | 5.87 | 585 | 3.81 352.18 | .84 114.79 | .25 216.11 | .89 257.71 | .87 347.41 | .57 127.64 | .37 268.12 | .13 68.75 |
| 481 | -7.12 | 6.57 | 584 | 4.52 2.82 | .88 127.17 | .46 214.72 | 1.12 264.87 | .86 5.85 | .62 148.16 | .44 263.83 | .18 73.28 |
| 482 | -9.35 | 8.44 | 584 | 5.75 7.43 | .98 123.98 | .84 287.57 | 1.13 255.78 | 1.82 2.27 | .67 142.58 | .61 245.58 | .18 334.58 |
| 483 | -11.49 | 10.62 | 585 | 7.23 9.41 | 1.22 115.17 | 1.32 199.59 | 1.88 244.86 | 1.26 2.17 | .49 122.46 | .64 242.13 | .22 316.88 |
| 484 | -12.94 | 12.38 | 586 | 8.67 7.69 | 1.33 92.26 | 1.34 282.84 | .88 249.15 | 1.53 5.68 | .54 94.49 | .52 228.89 | .14 261.72 |
| 485 | 1.39 | 6.21 | 585 | 3.28 384.91 | 2.88 188.63 | .27 38.24 | 1.82 294.68 | .96 24.88 | .58 136.24 | .28 328.36 | .34 146.71 |
| 486 | -.88 | 6.21 | 584 | 3.18 325.46 | 1.76 189.88 | .84 27.85 | 1.14 274.89 | .98 28.55 | .38 153.76 | .23 389.87 | .31 152.24 |
| 487 | -2.52 | 6.48 | 584 | 3.48 337.57 | 1.68 188.45 | .14 232.73 | 1.12 269.58 | .95 28.64 | .45 141.31 | .39 382.64 | .35 151.15 |
| 488 | -4.61 | 6.72 | 585 | 4.11 347.58 | 1.39 188.31 | .24 212.36 | 1.21 262.12 | .99 16.22 | .44 135.58 | .53 283.59 | .27 158.21 |
| 489 | -6.44 | 7.77 | 585 | 4.87 356.96 | 1.48 111.96 | .58 212.43 | 1.28 266.17 | .52 23.42 | .63 148.71 | .29 286.88 | .29 145.59 |
| 490 | -8.77 | 9.58 | 585 | 6.29 2.77 | 1.78 185.48 | .91 286.55 | 1.41 262.14 | 1.16 17.15 | .57 148.45 | .68 267.32 | .48 158.18 |
| 491 | -9.98 | 10.58 | 584 | 7.16 4.66 | 2.88 185.54 | 1.17 286.68 | 1.42 268.39 | 1.28 15.47 | .35 169.88 | .72 276.76 | .48 139.63 |
| 492 | -11.15 | 11.75 | 584 | 8.21 7.27 | 2.27 184.27 | 1.38 286.84 | 1.35 261.44 | 1.27 16.52 | .28 219.78 | .74 289.59 | .57 149.51 |
| 493 | 2.16 | 7.88 | 583 | 3.72 311.37 | 2.44 124.57 | .31 69.75 | 1.46 318.78 | .95 45.14 | .42 154.21 | .25 349.43 | .46 184.88 |
| 494 | .11 | 7.12 | 585 | 3.69 323.68 | 2.16 115.21 | .16 57.18 | 1.36 286.55 | .87 7.48 | .42 163.28 | .33 298.45 | .38 155.88 |
| 495 | -1.99 | 7.25 | 584 | 4.88 339.58 | 1.97 119.49 | .87 245.76 | 1.33 291.45 | .89 26.48 | .36 198.11 | .53 383.93 | .18 285.54 |
| 496 | -3.84 | 7.48 | 584 | 4.56 346.87 | 1.87 113.44 | .28 214.56 | 1.53 288.88 | .81 18.81 | .27 188.88 | .76 382.68 | .25 262.17 |
| 497 | -6.89 | 8.37 | 585 | 5.57 354.58 | 1.98 189.84 | .46 217.57 | 1.62 279.41 | .83 3.73 | .22 227.17 | .78 383.88 | .55 256.97 |
| 498 | -8.57 | 10.35 | 585 | 7.22 359.36 | 2.27 184.26 | .73 211.88 | 1.89 272.88 | .88 336.26 | .44 381.83 | .89 381.12 | .85 249.77 |
| 499 | -9.59 | 11.73 | 585 | 7.87 357.51 | 2.41 94.98 | .88 281.78 | 1.96 259.51 | .52 318.28 | .98 281.51 | .98 275.28 | 1.13 226.22 |

TABLE VIII.- Continued

(b) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO | | 16 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | 12.94 | 28.88 | 585 | 13.68 | 7.45 | 6.38 | 1.88 | 1.45 | .52 | .64 | .85 AMP |
| 478 | 14.66 | 28.88 | 584 | 139.23 | 328.27 | 36.58 | 322.95 | 274.68 | 142.81 | 55.63 | 274.82 PHASE |
| 479 | 16.38 | 21.74 | 585 | 14.54 | 7.64 | 7.15 | 1.18 | 1.48 | .55 | .69 | .77 AMP |
| 480 | 18.45 | 23.98 | 585 | 139.67 | 325.85 | 28.89 | 318.68 | 266.82 | 127.81 | 48.78 | 261.54 PHASE |
| 481 | 28.32 | 25.38 | 584 | 15.68 | 7.67 | 7.78 | .96 | 1.43 | .51 | .52 | .67 AMP |
| 482 | 22.53 | 26.69 | 584 | 138.78 | 324.52 | 22.94 | 384.32 | 256.73 | 118.58 | 24.48 | 235.78 PHASE |
| 483 | 24.48 | 27.59 | 585 | 17.85 | 8.19 | 8.77 | 1.83 | 1.55 | .51 | .58 | .68 AMP |
| 484 | 25.42 | 27.32 | 586 | 138.74 | 321.89 | 16.55 | 285.65 | 247.35 | 93.37 | 348.89 | 214.23 PHASE |
| 485 | 18.13 | 25.98 | 585 | 17.87 | 8.35 | 9.89 | .99 | 1.47 | .53 | .57 | .61 AMP |
| 486 | 12.82 | 27.76 | 584 | 141.73 | 326.53 | 21.67 | 286.85 | 259.52 | 98.63 | 345.93 | 228.49 PHASE |
| 487 | 13.66 | 28.27 | 584 | 19.18 | 8.28 | 9.39 | .85 | 1.47 | .52 | .69 | .48 AMP |
| 488 | 15.89 | 28.27 | 585 | 148.83 | 321.18 | 14.62 | 277.51 | 256.38 | 88.81 | 337.11 | 174.28 PHASE |
| 489 | 17.64 | 28.85 | 585 | 19.88 | 8.34 | 9.23 | .72 | 1.44 | .47 | .73 | .57 AMP |
| 490 | 19.61 | 28.38 | 585 | 139.32 | 318.85 | 7.63 | 267.71 | 256.88 | 67.99 | 329.38 | 142.36 PHASE |
| 491 | 28.46 | 28.71 | 584 | 28.25 | 8.52 | 8.66 | .59 | 1.37 | .55 | .71 | .48 AMP |
| 492 | 21.55 | 27.98 | 584 | 138.86 | 317.48 | 3.61 | 268.19 | 268.33 | 53.88 | 341.63 | 185.65 PHASE |
| 493 | 7.44 | 31.32 | 583 | 15.64 | 18.21 | 7.81 | 1.59 | 1.67 | .79 | 1.85 | 1.71 AMP |
| 494 | 9.37 | 31.23 | 585 | 136.88 | 321.47 | 46.88 | 328.52 | 279.18 | 141.62 | 56.58 | 388.86 PHASE |
| 495 | 11.38 | 31.82 | 584 | 16.77 | 18.74 | 8.98 | 1.57 | 1.64 | .97 | 1.18 | 1.43 AMP |
| 496 | 13.17 | 31.12 | 584 | 137.23 | 317.78 | 39.62 | 338.55 | 268.69 | 122.98 | 58.11 | 381.59 PHASE |
| 497 | 15.86 | 38.42 | 565 | 17.67 | 18.58 | 9.37 | 1.61 | 1.81 | 1.88 | 1.83 | 1.17 AMP |
| 498 | 16.73 | 31.89 | 585 | 137.52 | 315.94 | 34.85 | 323.21 | 261.81 | 112.18 | 47.92 | 383.87 PHASE |
| 499 | 17.63 | 31.19 | 585 | 18.77 | 18.21 | 9.83 | 1.51 | 1.74 | .98 | 1.16 | .99 AMP |
| | | | | 137.88 | 314.66 | 27.56 | 313.86 | 256.14 | 98.48 | 33.87 | 298.88 PHASE |
| | | | | 19.42 | 9.97 | 18.84 | 1.47 | 1.74 | .83 | 1.14 | 1.11 AMP |
| | | | | 138.87 | 315.59 | 28.82 | 318.81 | 266.21 | 98.83 | 36.31 | 381.43 PHASE |
| | | | | 28.87 | 9.27 | 18.89 | 1.33 | 1.59 | .91 | 1.37 | 1.37 AMP |
| | | | | 137.32 | 388.88 | 19.36 | 386.64 | 255.36 | 79.14 | 16.19 | 317.11 PHASE |
| | | | | 28.52 | 9.22 | 18.83 | 1.38 | 1.55 | .87 | 1.43 | 1.75 AMP |
| | | | | 136.87 | 388.42 | 17.32 | 382.53 | 258.74 | 74.24 | 12.88 | 317.51 PHASE |
| | | | | 28.83 | 9.83 | 9.78 | 1.31 | 1.56 | .84 | 1.58 | 1.82 AMP |
| | | | | 137.23 | 318.99 | 17.88 | 381.75 | 268.88 | 73.41 | 17.97 | 328.25 PHASE |
| | | | | 17.32 | 13.49 | 8.69 | 1.54 | 1.86 | 1.39 | 1.55 | 2.85 AMP |
| | | | | 139.59 | 324.27 | 63.41 | 352.83 | 287.29 | 144.88 | 64.54 | 315.54 PHASE |
| | | | | 18.41 | 13.82 | 8.81 | 1.38 | 1.78 | 1.53 | 1.82 | 1.56 AMP |
| | | | | 137.62 | 314.62 | 46.98 | 345.84 | 268.88 | 118.86 | 42.92 | 384.88 PHASE |
| | | | | 19.21 | 12.43 | 9.86 | 1.48 | 1.72 | 1.44 | 1.76 | 1.18 AMP |
| | | | | 142.83 | 318.83 | 51.88 | 356.88 | 275.61 | 125.48 | 78.18 | 339.78 PHASE |
| | | | | 19.97 | 11.72 | 9.62 | 1.32 | 1.64 | 1.61 | 1.76 | .87 AMP |
| | | | | 148.18 | 314.65 | 42.17 | 344.22 | 259.78 | 113.98 | 63.49 | 22.74 PHASE |
| | | | | 20.49 | 18.65 | 9.79 | 1.22 | 1.38 | 1.63 | 1.61 | 1.98 AMP |
| | | | | 148.41 | 312.88 | 39.85 | 343.92 | 259.58 | 186.46 | 64.98 | 51.14 PHASE |
| | | | | 21.56 | 18.89 | 18.18 | 1.16 | 1.83 | 1.45 | 1.53 | 3.11 AMP |
| | | | | 139.94 | 313.35 | 32.93 | 347.84 | 258.44 | 91.67 | 52.48 | 45.96 PHASE |
| | | | | 21.79 | 18.38 | 18.21 | 1.17 | .93 | 1.47 | 1.61 | 3.77 AMP |
| | | | | 136.55 | 387.15 | 22.89 | 336.95 | 243.53 | 78.98 | 37.46 | 26.54 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO | | 16 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | 2.84 | 21.94 | 585 | 5.28 | 2.64 | 2.98 | 3.64 | .74 | 5.22 | 2.72 | .68 AMP |
| 478 | 1.88 | 23.85 | 584 | 292.59 | 142.89 | 296.21 | 63.98 | 172.73 | 347.56 | 93.83 | 284.37 PHASE |
| 479 | 1.32 | 27.15 | 585 | 8.33 | 3.88 | 4.46 | 5.36 | 1.24 | 3.79 | 4.92 | .76 AMP |
| 480 | .73 | 44.38 | 585 | 387.42 | 139.69 | 274.56 | 58.25 | 297.82 | 74.89 | 94.12 | 161.32 PHASE |
| 481 | .85 | 54.32 | 584 | 13.56 | 5.28 | 6.68 | 6.33 | 2.48 | 1.91 | 4.57 | .92 AMP |
| 482 | -1.46 | 65.81 | 584 | 321.22 | 144.48 | 256.98 | 41.84 | 313.88 | 137.33 | 117.33 | 128.89 PHASE |
| 483 | -3.13 | 68.49 | 585 | 22.36 | 5.79 | 8.95 | 8.18 | 2.26 | 5.13 | 4.55 | 1.85 AMP |
| 484 | -2.65 | 75.68 | 586 | 336.81 | 146.92 | 258.58 | 35.88 | 352.97 | 326.23 | 277.68 | 156.64 PHASE |
| 485 | 2.38 | 24.28 | 585 | 29.17 | 5.94 | 13.63 | 9.23 | 1.68 | 5.35 | 6.55 | 1.69 AMP |
| 486 | 2.83 | 38.52 | 584 | 342.67 | 158.73 | 256.48 | 43.99 | 2.82 | 345.58 | 386.98 | 173.27 PHASE |
| 487 | 1.74 | 48.57 | 584 | 39.31 | 5.62 | 17.77 | 18.23 | 1.67 | 5.21 | 6.47 | .91 AMP |
| 488 | 1.83 | 46.28 | 585 | 344.83 | 158.92 | 253.38 | 29.86 | 264.81 | 357.33 | 332.88 | 147.77 PHASE |
| 489 | -1.88 | 53.44 | 585 | 49.83 | 5.64 | 28.71 | 11.31 | 3.78 | 6.24 | 4.98 | 1.41 AMP |
| 490 | -2.44 | 65.45 | 585 | 345.16 | 167.78 | 249.15 | 18.38 | 243.22 | 32.49 | 21 | 94.75 PHASE |
| 491 | -4.85 | 71.38 | 584 | 54.97 | 8.38 | 24.13 | 11.88 | 7.29 | 8.45 | 2.85 | 3.81 AMP |
| 492 | -5.18 | 77.28 | 584 | 349.32 | 172.84 | 245.14 | .82 | 264.32 | 36.56 | 22.99 | 48.12 PHASE |
| 493 | 3.25 | 27.61 | 583 | 8.18 | 4.43 | 4.23 | 3.75 | 1.39 | 2.14 | 6.12 | .92 AMP |
| 494 | 2.57 | 34.57 | 585 | 288.98 | 121.35 | 286.69 | 63.12 | 187.74 | 41.32 | 187.41 | 268.82 PHASE |
| 495 | 1.64 | 43.44 | 584 | 13.45 | 7.62 | 6.64 | 5.73 | 1.63 | 4.74 | 7.51 | .95 AMP |
| 496 | .38 | 49.87 | 584 | 387.28 | 128.53 | 275.92 | 47.65 | 384.88 | 139.93 | 93.69 | 324.88 PHASE |
| 497 | -1.88 | 56.54 | 585 | 17.88 | 8.78 | 8.63 | 7.66 | 1.34 | 1.63 | 4.22 | .63 AMP |
| 498 | -4.95 | 67.19 | 585 | 318.69 | 134.19 | 264.44 | 46.58 | 322.65 | 216.85 | 92.34 | 132.15 PHASE |
| 499 | -6.18 | 68.49 | 585 | 24.85 | 9.28 | 11.28 | 18.36 | 2.72 | 18.93 | 14.88 | 2.82 AMP |
| | | | | 324.24 | 137.55 | 258.78 | 42.11 | 339.89 | 282.89 | 23.49 | 183.81 PHASE |
| | | | | 38.17 | 9.78 | 14.19 | 9.18 | 2.23 | 6.51 | 5.88 | 1.87 AMP |
| | | | | 331.86 | 142.61 | 262.88 | 47.99 | 356.35 | 319.17 | 341.13 | 137.48 PHASE |
| | | | | 38.87 | 18.15 | 17.88 | 9.63 | 2.88 | 8.48 | 11.51 | .82 AMP |
| | | | | 336.67 | 137.48 | 259.24 | 39.75 | 4.62 | 341.48 | 332.96 | 57.41 PHASE |
| | | | | 43.26 | 18.32 | 19.28 | 18.14 | 2.42 | 18.11 | 12.85 | .86 AMP |
| | | | | 338.49 | 137.12 | 268.87 | 35.34 | 348.34 | 349.58 | 338.59 | 332.88 PHASE |
| | | | | 48.58 | 18.11 | 21.58 | 18.36 | 2.38 | 18.93 | 14.88 | 2.82 AMP |
| | | | | 348.98 | 141.38 | 261.39 | 38.48 | 334.67 | 2.74 | 346.54 | 346.51 PHASE |
| | | | | 11.67 | 5.94 | 5.36 | 3.76 | 3.99 | 3.89 | 6.29 | 2.46 AMP |
| | | | | 284.11 | 127.85 | 288.64 | 85.71 | 311.17 | 274.21 | 111.25 | 239.31 PHASE |
| | | | | 15.98 | 8.86 | 6.95 | 3.94 | 5.18 | 1.41 | 6.73 | 1.39 AMP |
| | | | | 295.82 | 131.36 | 274.49 | 49.66 | 281.58 | 186.96 | 81.16 | 289.46 PHASE |
| | | | | 28.88 | 11.84 | 8.46 | 6.67 | 5.69 | 4.68 | 6.82 | .33 AMP |
| | | | | 314.27 | 142.46 | 274.66 | 64.64 | 382.16 | 246.46 | 124.64 | 76.28 PHASE |
| | | | | 25.88 | 11.74 | 18.86 | 7.66 | 5.84 | 5.48 | 6.16 | 2.21 AMP |
| | | | | 318.71 | 148.82 | 269.36 | 59.67 | 381.86 | 268.95 | 125.18 | 97.66 PHASE |
| | | | | 32.84 | 12.69 | 12.58 | 9.39 | 5.56 | 5.45 | 4.22 | 3.85 AMP |
| | | | | 327.19 | 139.51 | 272.27 | 61.34 | 315.34 | 331.94 | 68.49 | 92.62 PHASE |
| | | | | 41.32 | 13.62 | 16.11 | 18.48 | 6.86 | 18.81 | 7.71 | 3.34 AMP |
| | | | | 333.63 | 139.15 | 272.88 | 53.38 | 327.25 | 352.87 | 1.38 | 53.82 PHASE |
| | | | | 44.52 | 13.35 | 17.88 | 18.88 | 6.69 | 12.68 | 18.89 | 5.88 AMP |
| | | | | 331.66 | 133.88 | 263.12 | 36.87 | 324.89 | 355.41 | 358.73 | 22.98 PHASE |

TABLE VIII.- Continued

(b) Continued

| TORSION 50 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | 1.41 | 4.84 | 585 | 2.41 | 1.50 | .23 | .71 | .84 | 167.49 | .19 | .22 AMP |
| | | | | 315.71 | 115.24 | 39.68 | 328.11 | 35.14 | 167.94 | 331.53 | 198.88 PHASE |
| 478 | -.35 | 4.67 | 584 | 2.48 | 1.19 | .89 | .71 | .82 | 188.67 | .17 | .31 AMP |
| | | | | 335.84 | 128.85 | 32.92 | 386.47 | 33.28 | 188.67 | 341.22 | 168.13 PHASE |
| 479 | -1.79 | 4.73 | 585 | 2.73 | .99 | .85 | .77 | .88 | 166.59 | .39 | .29 AMP |
| | | | | 347.46 | 127.68 | 182.47 | 294.87 | 23.65 | 166.59 | 348.64 | 142.98 PHASE |
| 480 | -4.16 | 5.83 | 585 | 3.48 | .93 | .19 | .92 | .88 | 157.69 | .48 | .19 AMP |
| | | | | 2.88 | 135.34 | 287.58 | 282.12 | 13.97 | 157.69 | 298.67 | 123.13 PHASE |
| 481 | -5.98 | 6.39 | 584 | 4.17 | .89 | .35 | .94 | .89 | 176.89 | .61 | .49 AMP |
| | | | | 12.83 | 151.89 | 213.38 | 287.81 | 38.96 | 176.89 | 382.44 | 123.47 PHASE |
| 482 | -8.87 | 8.26 | 584 | 5.31 | .98 | .68 | .97 | 1.89 | 177.78 | .72 | .16 AMP |
| | | | | 17.58 | 158.97 | 289.98 | 279.17 | 29.17 | 178.14 | 283.75 | 22.72 PHASE |
| 483 | -18.88 | 18.85 | 585 | 6.69 | 1.28 | 1.86 | .91 | 1.29 | 158.69 | .74 | .26 AMP |
| | | | | 19.31 | 143.61 | 283.82 | 272.52 | 28.52 | 158.69 | 281.45 | 2.58 PHASE |
| 484 | -11.53 | 11.41 | 586 | 8.87 | 1.12 | .92 | .65 | 1.55 | 126.55 | .63 | .16 AMP |
| | | | | 17.81 | 124.13 | 283.56 | 278.14 | 31.58 | 126.55 | 271.82 | 318.29 PHASE |
| 485 | 2.43 | 6.43 | 585 | 3.88 | 2.24 | .34 | .97 | .57 | 166.71 | .23 | .36 AMP |
| | | | | 318.71 | 119.84 | 39.44 | 324.13 | 55.38 | 166.71 | 31.73 | 289.58 PHASE |
| 486 | .26 | 6.34 | 584 | 2.88 | 1.95 | .16 | 1.81 | .86 | 183.18 | .44 | .34 AMP |
| | | | | 332.42 | 122.44 | 28.63 | 385.15 | 46.63 | 183.18 | 14.84 | 214.39 PHASE |
| 487 | -1.42 | 6.39 | 584 | 3.14 | 1.78 | .89 | .96 | .91 | 172.19 | .53 | .36 AMP |
| | | | | 345.21 | 124.41 | 314.54 | 298.43 | 45.16 | 172.19 | 355.78 | 287.53 PHASE |
| 488 | -3.43 | 6.41 | 585 | 3.68 | 1.47 | .11 | 1.88 | .98 | 164.83 | .54 | .28 AMP |
| | | | | 356.73 | 127.96 | 237.21 | 287.78 | 48.18 | 164.83 | 331.33 | 213.28 PHASE |
| 489 | -5.15 | 7.19 | 585 | 4.32 | 1.36 | .29 | 1.82 | 1.89 | 175.15 | .63 | .28 AMP |
| | | | | 6.51 | 133.86 | 223.98 | 289.93 | 48.32 | 175.15 | 332.98 | 281.81 PHASE |
| 490 | -7.38 | 8.56 | 585 | 5.45 | 1.45 | .57 | 1.19 | 1.19 | 166.83 | .64 | .36 AMP |
| | | | | 12.34 | 125.89 | 286.57 | 281.12 | 38.78 | 166.83 | 318.89 | 288.37 PHASE |
| 491 | -8.29 | 9.32 | 584 | 6.18 | 1.58 | .83 | 1.29 | 1.31 | 167.88 | .78 | .42 AMP |
| | | | | 13.74 | 123.95 | 283.52 | 277.88 | 36.36 | 167.88 | 321.81 | 195.84 PHASE |
| 492 | -9.45 | 18.44 | 584 | 7.15 | 1.78 | 1.86 | 1.32 | 1.43 | 172.35 | .85 | .51 AMP |
| | | | | 15.54 | 118.75 | 196.79 | 275.79 | 36.74 | 172.35 | 334.81 | 196.58 PHASE |
| 493 | 3.14 | 7.28 | 583 | 3.46 | 2.62 | .29 | 1.38 | 1.86 | 183.18 | .56 | .34 AMP |
| | | | | 316.37 | 135.57 | 66.11 | 337.48 | 72.92 | 183.18 | 41.98 | 242.28 PHASE |
| 494 | 1.13 | 7.38 | 585 | 3.33 | 2.38 | .23 | 1.24 | .98 | 185.86 | .47 | .38 AMP |
| | | | | 328.91 | 127.53 | 28.68 | 315.43 | 38.85 | 185.86 | 352.88 | 221.77 PHASE |
| 495 | -.91 | 6.85 | 584 | 3.54 | 1.98 | .19 | 1.13 | .98 | 166.83 | .56 | .21 AMP |
| | | | | 345.42 | 134.83 | 352.84 | 322.83 | 53.63 | 166.83 | 357.88 | 283.95 PHASE |
| 496 | -2.62 | 7.18 | 584 | 3.94 | 1.77 | .89 | 1.25 | .86 | 178.14 | .79 | .32 AMP |
| | | | | 352.83 | 131.58 | 338.47 | 389.61 | 35.84 | 178.14 | 349.86 | 331.93 PHASE |
| 497 | -4.64 | 7.56 | 585 | 4.64 | 1.63 | .16 | 1.36 | .92 | 183.18 | .85 | .55 AMP |
| | | | | 1.62 | 126.77 | 238.44 | 383.11 | 29.74 | 183.18 | 348.11 | 325.12 PHASE |
| 498 | -6.98 | 9.19 | 585 | 6.89 | 1.71 | .49 | 1.77 | 1.82 | 166.83 | .98 | .86 AMP |
| | | | | 6.48 | 119.89 | 288.82 | 294.81 | 9.51 | 166.83 | 343.45 | 314.43 PHASE |
| 499 | -7.86 | 18.44 | 585 | 6.69 | 1.79 | .68 | 1.89 | 1.16 | 183.18 | .45 | .18 AMP |
| | | | | 4.52 | 186.14 | 191.84 | 288.31 | 358.36 | 183.18 | 318.77 | 287.69 PHASE |



TABLE VIII.- Continued

(b) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | -2.87 | 24.88 | 585 | 16.26 | 7.83 | 3.64 | 2.49 | 3.88 | .88 | .68 | 1.29 |
| | | | | 135.81 | 327.33 | 355.39 | 169.28 | 275.89 | 78.85 | 213.38 | 94.38 |
| 478 | .48 | 25.85 | 584 | 16.73 | 7.99 | 4.36 | 2.46 | 3.52 | .36 | .72 | 1.17 |
| | | | | 137.98 | 325.73 | 352.82 | 168.35 | 274.36 | 131.28 | 194.63 | 83.87 |
| 479 | 2.75 | 26.19 | 585 | 17.68 | 8.13 | 4.86 | 2.39 | 3.36 | .35 | .57 | 1.81 |
| | | | | 139.15 | 324.72 | 351.45 | 149.18 | 251.58 | 115.37 | 173.86 | 58.29 |
| 480 | 6.44 | 28.84 | 585 | 18.92 | 8.91 | 5.41 | 2.39 | 3.82 | .48 | .68 | 1.88 |
| | | | | 141.65 | 321.66 | 349.43 | 131.31 | 239.83 | 74.54 | 136.61 | 33.78 |
| 481 | 9.33 | 38.17 | 584 | 19.73 | 9.29 | 5.72 | 2.18 | 3.67 | .62 | .77 | .84 |
| | | | | 146.54 | 326.76 | 356.52 | 133.56 | 251.85 | 68.41 | 139.96 | 48.98 |
| 482 | 12.72 | 32.38 | 584 | 21.86 | 9.78 | 5.83 | 1.84 | 4.84 | .82 | .89 | .68 |
| | | | | 147.56 | 321.27 | 352.26 | 111.88 | 246.37 | 45.58 | 135.36 | 357.96 |
| 483 | 15.88 | 33.38 | 585 | 22.38 | 18.38 | 5.74 | 1.53 | 3.93 | 1.83 | .88 | .66 |
| | | | | 148.13 | 317.87 | 347.85 | 86.87 | 245.82 | 38.12 | 132.83 | 318.21 |
| 484 | 17.42 | 34.63 | 586 | 23.33 | 18.98 | 5.38 | 1.41 | 3.88 | 1.86 | .76 | .59 |
| | | | | 148.58 | 315.98 | 344.82 | 67.89 | 248.84 | 24.75 | 145.95 | 271.44 |
| 485 | -4.78 | 28.84 | 585 | 18.38 | 18.38 | 4.85 | 3.88 | 4.84 | .68 | 1.16 | 2.68 |
| | | | | 132.88 | 322.33 | 3.27 | 167.78 | 294.68 | 273.56 | 218.13 | 115.71 |
| 486 | -1.98 | 38.16 | 584 | 19.81 | 18.69 | 4.91 | 3.91 | 4.39 | .62 | 1.29 | 2.28 |
| | | | | 136.31 | 319.19 | .93 | 159.93 | 298.95 | 258.87 | 211.64 | 115.71 |
| 487 | .74 | 31.11 | 584 | 19.69 | 18.66 | 5.31 | 3.55 | 4.26 | .58 | 1.86 | 1.82 |
| | | | | 138.25 | 318.27 | 358.12 | 152.48 | 281.51 | 258.59 | 283.41 | 117.28 |
| 488 | 3.98 | 32.27 | 585 | 28.54 | 18.81 | 5.56 | 2.98 | 4.56 | .37 | 1.28 | 1.54 |
| | | | | 148.28 | 316.88 | 354.88 | 148.49 | 278.45 | 266.48 | 198.86 | 112.63 |
| 489 | 6.78 | 33.41 | 585 | 21.38 | 18.88 | 5.61 | 2.43 | 4.83 | .25 | 1.16 | 1.74 |
| | | | | 143.81 | 318.98 | 359.26 | 136.82 | 278.85 | 317.12 | 198.58 | 118.46 |
| 490 | 9.95 | 34.77 | 585 | 22.25 | 18.77 | 5.45 | 1.94 | 4.58 | .44 | 1.25 | 2.88 |
| | | | | 144.98 | 313.63 | 347.86 | 116.73 | 271.85 | 18.83 | 178.33 | 132.83 |
| 491 | 11.44 | 35.98 | 584 | 22.98 | 18.88 | 5.31 | 1.82 | 4.84 | .58 | 1.24 | 2.68 |
| | | | | 145.59 | 313.83 | 347.58 | 187.56 | 274.79 | 2.42 | 169.54 | 134.72 |
| 492 | 13.87 | 36.48 | 584 | 23.57 | 11.18 | 5.14 | 1.54 | 4.87 | .86 | 1.18 | 2.71 |
| | | | | 147.58 | 316.23 | 346.28 | 94.76 | 281.66 | 7.39 | 175.65 | 145.89 |
| 493 | -7.17 | 32.83 | 583 | 28.28 | 12.27 | 4.48 | 5.77 | 4.53 | 1.32 | 2.16 | 2.96 |
| | | | | 134.82 | 326.45 | 17.58 | 179.87 | 313.31 | 321.67 | 246.38 | 139.47 |
| 494 | -4.48 | 32.39 | 585 | 28.53 | 12.26 | 4.53 | 4.95 | 4.18 | .91 | 2.42 | 2.39 |
| | | | | 135.29 | 314.89 | 6.41 | 164.99 | 282.84 | 295.38 | 224.78 | 131.76 |
| 495 | -1.24 | 32.16 | 584 | 21.22 | 11.67 | 4.76 | 4.15 | 3.92 | 1.84 | 2.41 | 1.97 |
| | | | | 141.55 | 328.18 | 18.77 | 176.14 | 291.17 | 288.12 | 249.85 | 178.88 |
| 496 | 1.53 | 33.11 | 584 | 21.97 | 11.26 | 4.99 | 3.78 | 4.87 | 1.88 | 2.23 | 1.65 |
| | | | | 142.86 | 316.36 | 12.66 | 167.37 | 272.19 | 288.84 | 239.59 | 194.68 |
| 497 | 4.68 | 34.83 | 585 | 22.54 | 18.66 | 4.76 | 3.88 | 4.11 | 1.16 | 1.95 | 2.95 |
| | | | | 144.43 | 315.28 | 13.82 | 165.77 | 274.31 | 286.13 | 248.75 | 228.88 |
| 498 | 7.88 | 36.91 | 585 | 24.28 | 18.62 | 4.62 | 2.94 | 3.29 | 1.33 | 1.78 | 4.53 |
| | | | | 145.83 | 317.22 | 9.47 | 155.78 | 278.57 | 383.45 | 236.28 | 217.66 |
| 499 | 9.22 | 37.76 | 585 | 24.68 | 18.28 | 4.58 | 2.65 | 3.49 | 1.31 | 1.62 | 5.35 |
| | | | | 143.44 | 318.96 | 356.66 | 143.95 | 266.77 | 299.18 | 218.53 | 197.72 |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 16 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | -18.21 | 14.48 | 585 | 4.87 | 2.78 | 2.57 | 1.43 | 1.81 | 2.27 | 1.18 | .48 |
| | | | | 145.27 | 325.87 | 358.66 | 98.26 | 263.51 | 343.86 | 97.71 | 118.43 |
| 478 | -9.88 | 13.37 | 584 | 3.87 | 2.43 | 2.91 | 1.99 | 2.14 | 1.63 | 2.12 | .68 |
| | | | | 151.89 | 328.98 | 339.38 | 72.38 | 269.35 | 66.87 | 95.36 | 184.34 |
| 479 | -9.19 | 11.76 | 585 | 2.48 | 2.88 | 3.19 | 2.42 | 2.31 | .74 | 2.18 | .68 |
| | | | | 153.78 | 329.33 | 327.13 | 59.88 | 267.46 | 119.73 | 115.81 | 84.39 |
| 480 | -7.59 | 12.29 | 585 | .27 | 2.38 | 4.84 | 3.32 | 1.85 | 2.27 | 1.84 | .77 |
| | | | | 49.78 | 328.87 | 311.54 | 48.27 | 268.87 | 323.83 | 265.83 | 128.48 |
| 481 | -6.87 | 13.99 | 584 | 2.88 | 2.78 | 4.68 | 3.82 | 1.83 | 2.45 | 2.58 | .67 |
| | | | | 337.41 | 332.73 | 312.69 | 53.69 | 265.85 | 343.94 | 299.15 | 136.28 |
| 482 | -4.33 | 18.98 | 584 | 4.96 | 3.24 | 5.83 | 4.39 | 2.52 | 2.61 | 2.61 | .38 |
| | | | | 333.56 | 328.39 | 388.94 | 37.28 | 246.93 | 352.81 | 327.94 | 86.66 |
| 483 | -3.44 | 22.83 | 585 | 7.78 | 3.79 | 6.72 | 4.88 | 3.39 | 2.95 | 2.89 | .66 |
| | | | | 338.68 | 321.26 | 298.82 | 23.48 | 248.82 | 28.52 | 358.78 | 55.24 |
| 484 | -1.58 | 23.52 | 586 | 7.35 | 2.56 | 8.18 | 4.52 | 5.16 | 4.26 | 1.44 | 1.37 |
| | | | | 342.28 | 283.85 | 278.17 | 353.17 | 268.85 | 21.68 | 28.34 | 37.85 |
| 485 | -9.54 | 16.25 | 585 | 5.24 | 3.45 | 2.73 | 1.75 | 2.21 | .85 | 2.58 | .53 |
| | | | | 146.21 | 326.61 | 358.84 | 114.57 | 274.28 | 14.65 | 189.83 | 125.56 |
| 486 | -11.83 | 16.17 | 584 | 3.67 | 2.69 | 3.43 | 2.23 | 2.66 | 1.73 | 3.84 | .53 |
| | | | | 155.57 | 326.73 | 342.12 | 84.29 | 283.86 | 135.35 | 94.33 | 71.89 |
| 487 | -18.35 | 13.55 | 584 | 2.26 | 2.31 | 3.69 | 2.97 | 2.55 | .65 | 1.67 | 1.85 |
| | | | | 161.29 | 325.47 | 332.82 | 68.98 | 277.49 | 236.87 | 97.89 | 182.82 |
| 488 | -8.76 | 14.85 | 585 | .81 | 2.23 | 4.29 | 3.43 | 2.68 | 1.98 | .75 | 1.21 |
| | | | | 218.84 | 324.96 | 321.76 | 58.88 | 274.18 | 284.52 | 23.96 | 94.19 |
| 489 | -7.48 | 16.84 | 585 | 1.89 | 2.23 | 4.94 | 3.92 | 2.69 | 3.86 | 1.96 | 1.37 |
| | | | | 381.73 | 329.11 | 328.11 | 58.47 | 285.87 | 317.26 | 333.76 | 111.81 |
| 490 | -5.19 | 21.14 | 585 | 4.44 | 2.36 | 5.98 | 4.38 | 2.24 | 4.86 | 4.83 | 1.48 |
| | | | | 319.76 | 332.26 | 387.48 | 46.78 | 279.69 | 337.88 | 329.17 | 94.44 |
| 491 | -5.48 | 23.46 | 584 | 5.71 | 2.55 | 6.56 | 4.56 | 2.75 | 4.82 | 5.53 | 1.81 |
| | | | | 322.55 | 333.91 | 384.47 | 41.36 | 281.67 | 343.47 | 335.84 | 181.84 |
| 492 | -4.95 | 26.52 | 584 | 7.12 | 2.63 | 7.17 | 4.65 | 3.48 | 5.39 | 6.14 | .75 |
| | | | | 325.72 | 334.51 | 299.79 | 33.35 | 292.71 | 356.43 | 343.87 | 98.28 |
| 493 | -12.97 | 19.47 | 583 | 5.68 | 3.98 | 2.72 | 2.51 | 3.55 | 1.59 | 2.86 | 1.32 |
| | | | | 157.78 | 329.84 | .77 | 144.16 | 384.35 | 285.12 | 115.26 | 184.47 |
| 494 | -12.77 | 19.28 | 585 | 4.39 | 3.88 | 5.98 | 2.98 | 2.79 | .37 | 2.25 | 1.15 |
| | | | | 165.88 | 315.18 | 343.84 | 118.91 | 272.74 | 218.44 | 85.14 | 156.32 |
| 495 | -11.45 | 17.43 | 584 | 2.74 | 2.25 | 3.18 | 2.76 | 3.97 | 1.92 | 2.68 | .85 |
| | | | | 181.16 | 328.13 | 349.24 | 95.36 | 288.18 | 248.79 | 131.93 | 146.91 |
| 496 | -18.86 | 17.61 | 584 | 1.78 | 1.86 | 3.75 | 3.25 | 3.98 | 2.35 | 2.51 | 1.52 |
| | | | | 216.86 | 318.14 | 337.35 | 82.83 | 288.54 | 269.54 | 138.88 | 128.58 |
| 497 | -8.65 | 28.51 | 585 | 2.24 | 1.44 | 4.26 | 4.82 | 3.68 | 2.55 | 1.47 | 1.79 |
| | | | | 286.66 | 338.84 | 335.78 | 76.82 | 288.75 | 328.26 | 68.56 | 129.41 |
| 498 | -7.94 | 28.39 | 585 | 4.38 | 1.78 | 5.36 | 4.59 | 3.66 | 4.83 | 3.11 | 1.31 |
| | | | | 312.87 | 345.72 | 325.28 | 64.98 | 384.73 | 347.14 | 357.29 | 124.37 |
| 499 | -7.18 | 28.39 | 585 | 5.48 | 1.69 | 5.79 | 4.78 | 3.53 | 6.86 | 4.43 | 1.25 |
| | | | | 313.48 | 344.23 | 318.78 | 46.83 | 388.14 | 358.19 | 349.26 | 84.85 |

TABLE VIII.- Continued

(b) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 16 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | -1.42 | 4.88 | 585 | 2.17 | 1.55 | .89 | .67 | .52 | .39 | .14 | .28 AMP |
| | | | | 293.62 | 119.68 | 68.21 | 336.96 | 21.38 | 166.86 | 48.32 | 269.18 PHASE |
| 478 | -2.11 | 3.61 | 584 | 1.84 | 1.38 | .84 | .67 | .47 | .36 | .19 | .16 AMP |
| | | | | 313.44 | 129.85 | 163.11 | 328.28 | 13.84 | 169.44 | 17.62 | 238.51 PHASE |
| 479 | -3.38 | 3.74 | 585 | 1.96 | 1.16 | .14 | .63 | .48 | .33 | .25 | .18 AMP |
| | | | | 331.79 | 148.98 | 174.92 | 314.51 | 1.81 | 156.44 | 1.32 | 198.92 PHASE |
| 480 | -5.52 | 4.61 | 585 | 2.44 | 1.21 | .24 | .66 | .52 | .38 | .24 | .86 AMP |
| | | | | 356.58 | 154.78 | 173.67 | 293.28 | 353.64 | 135.14 | 322.55 | 175.58 PHASE |
| 481 | -7.83 | 5.15 | 584 | 3.81 | 1.31 | .35 | .64 | .58 | .38 | .26 | .86 AMP |
| | | | | 11.24 | 178.42 | 177.47 | 293.38 | 9.28 | 147.48 | 313.31 | 185.73 PHASE |
| 482 | -8.89 | 6.87 | 584 | 3.94 | 1.52 | .58 | .63 | .55 | .48 | .41 | .85 AMP |
| | | | | 19.73 | 173.77 | 169.57 | 278.62 | 6.68 | 138.32 | 288.23 | 339.82 PHASE |
| 483 | -18.59 | 6.81 | 585 | 5.84 | 1.86 | .59 | .52 | .61 | .39 | .53 | .11 AMP |
| | | | | 23.94 | 174.21 | 158.14 | 263.88 | 7.74 | 116.84 | 285.67 | 1.44 PHASE |
| 484 | -11.74 | 7.27 | 586 | 5.91 | 1.57 | .53 | .13 | .68 | .45 | .47 | .11 AMP |
| | | | | 28.55 | 176.19 | 187.53 | 275.94 | 29.23 | 186.83 | 283.63 | 312.85 PHASE |
| 485 | .19 | 5.33 | 585 | 2.88 | 2.29 | .11 | .95 | .58 | .53 | .41 | .41 AMP |
| | | | | 291.48 | 118.85 | 36.28 | 343.82 | 38.21 | 169.28 | 66.27 | 287.63 PHASE |
| 486 | -1.88 | 5.88 | 584 | 2.48 | 2.82 | .84 | .91 | .48 | .47 | .47 | .43 AMP |
| | | | | 312.56 | 124.18 | 295.65 | 333.81 | 8.35 | 178.57 | 46.17 | 286.88 PHASE |
| 487 | -3.38 | 5.87 | 584 | 2.39 | 1.78 | .11 | .84 | .49 | .49 | .43 | .37 AMP |
| | | | | 328.83 | 129.92 | 221.35 | 326.28 | 3.34 | 156.89 | 31.45 | 285.77 PHASE |
| 488 | -5.86 | 5.35 | 585 | 2.66 | 1.66 | .16 | .77 | .54 | .47 | .47 | .37 AMP |
| | | | | 346.71 | 139.87 | 187.69 | 311.86 | 5.92 | 141.87 | 9.27 | 284.25 PHASE |
| 489 | -6.53 | 5.75 | 585 | 3.88 | 1.59 | .24 | .72 | .55 | .47 | .48 | .33 AMP |
| | | | | 1.58 | 151.58 | 192.56 | 387.95 | 18.34 | 148.81 | 7.45 | 285.74 PHASE |
| 490 | -8.38 | 6.48 | 585 | 3.79 | 1.56 | .29 | .73 | .49 | .48 | .49 | .39 AMP |
| | | | | 12.54 | 157.52 | 165.66 | 289.11 | 8.76 | 132.61 | 342.92 | 277.95 PHASE |
| 491 | -9.84 | 7.81 | 584 | 4.24 | 1.67 | .39 | .76 | .53 | .41 | .58 | .48 AMP |
| | | | | 15.77 | 168.71 | 167.22 | 285.82 | 13.58 | 126.38 | 339.78 | 281.87 PHASE |
| 492 | -9.91 | 7.88 | 584 | 4.83 | 1.73 | .45 | .67 | .53 | .32 | .78 | .31 AMP |
| | | | | 19.29 | 164.88 | 155.83 | 284.87 | 28.85 | 132.14 | 346.87 | 298.55 PHASE |
| 493 | .56 | 7.88 | 583 | 3.48 | 2.62 | .12 | 1.16 | .73 | .68 | .64 | .57 AMP |
| | | | | 298.58 | 127.24 | 297.18 | 355.78 | 33.18 | 189.42 | 73.42 | 311.34 PHASE |
| 494 | -1.38 | 6.37 | 585 | 2.99 | 2.39 | .26 | 1.88 | .68 | .45 | .64 | .55 AMP |
| | | | | 389.83 | 122.49 | 388.83 | 335.93 | 359.58 | 173.56 | 388.96 | 384.77 PHASE |
| 495 | -3.88 | 5.88 | 584 | 2.88 | 2.86 | .31 | .96 | .71 | .32 | .61 | .52 AMP |
| | | | | 328.68 | 133.22 | 296.27 | 347.82 | 13.48 | 198.76 | 43.55 | 342.18 PHASE |
| 496 | -4.53 | 5.95 | 584 | 3.81 | 1.84 | .26 | .94 | .73 | .26 | .72 | .64 AMP |
| | | | | 348.89 | 136.82 | 281.77 | 331.89 | .83 | 163.79 | 25.49 | 355.76 PHASE |
| 497 | -6.16 | 6.82 | 585 | 3.25 | 1.62 | .25 | .88 | .69 | .16 | .78 | .79 AMP |
| | | | | 354.33 | 144.77 | 272.45 | 323.82 | 1.48 | 141.87 | 16.21 | 4.11 PHASE |
| 498 | -7.88 | 6.62 | 585 | 3.88 | 1.58 | .23 | .98 | .61 | .11 | .75 | 1.82 AMP |
| | | | | 5.57 | 157.75 | 261.68 | 389.92 | 344.49 | 15.71 | 1.88 | 357.17 PHASE |
| 499 | -8.49 | 7.81 | 585 | 4.15 | 1.51 | .16 | .91 | .68 | .12 | .76 | 1.17 AMP |
| | | | | 5.85 | 154.31 | 233.84 | 294.68 | 326.28 | 328.83 | 331.89 | 331.72 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 16 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 477 | -1.97 | 5.87 | 585 | 2.76 | .58 | .88 | .97 | 1.13 | .43 | .37 | .31 AMP |
| | | | | 159.78 | 328.85 | 288.62 | 136.62 | 215.73 | 359.67 | 184.79 | 326.68 PHASE |
| 478 | -1.43 | 5.55 | 584 | 2.96 | .43 | .76 | .99 | 1.16 | .51 | .22 | .38 AMP |
| | | | | 178.76 | 353.31 | 187.23 | 119.89 | 214.37 | 15.12 | 87.97 | 322.67 PHASE |
| 479 | .99 | 6.14 | 585 | 3.14 | .38 | .71 | 1.18 | 1.28 | .49 | .16 | .32 AMP |
| | | | | 199.91 | 9.82 | 159.85 | 188.56 | 285.67 | 13.88 | 62.79 | 294.47 PHASE |
| 480 | 3.18 | 7.89 | 585 | 4.66 | .46 | .63 | 1.44 | 1.45 | .78 | .32 | .23 AMP |
| | | | | 287.47 | 28.15 | 122.86 | 185.69 | 191.19 | 3.38 | 61.46 | 271.88 PHASE |
| 481 | 4.66 | 9.92 | 584 | 6.87 | .54 | .76 | 1.44 | 1.48 | .84 | .36 | .17 AMP |
| | | | | 212.62 | 42.14 | 91.61 | 115.26 | 286.81 | 15.44 | 94.75 | 268.96 PHASE |
| 482 | 6.54 | 12.55 | 584 | 8.23 | .48 | 1.36 | 1.45 | 1.56 | .98 | .58 | .21 AMP |
| | | | | 211.42 | 29.25 | 62.88 | 185.38 | 288.26 | 6.18 | 188.41 | 175.89 PHASE |
| 483 | 8.65 | 16.89 | 585 | 18.85 | .43 | 1.34 | 1.44 | 1.68 | .88 | .66 | .39 AMP |
| | | | | 289.84 | 343.44 | 43.26 | 93.84 | 197.68 | 341.88 | 115.72 | 149.35 PHASE |
| 484 | 9.94 | 18.68 | 586 | 13.88 | .42 | 1.24 | 1.76 | 1.82 | .82 | .52 | .37 AMP |
| | | | | 286.82 | 251.59 | 41.43 | 93.96 | 198.36 | 319.91 | 114.95 | 91.18 PHASE |
| 485 | -2.88 | 6.22 | 585 | 2.28 | 1.13 | .95 | 1.37 | 1.44 | .38 | .37 | .72 AMP |
| | | | | 156.93 | 314.55 | 198.88 | 138.25 | 243.12 | 1.86 | 88.88 | 338.24 PHASE |
| 486 | -1.87 | 6.94 | 584 | 2.85 | 1.82 | .83 | 1.55 | 1.46 | .38 | .32 | .67 AMP |
| | | | | 176.41 | 315.85 | 185.46 | 117.68 | 235.64 | 35.85 | 67.61 | 335.46 PHASE |
| 487 | .46 | 7.62 | 584 | 3.74 | .96 | .74 | 1.56 | 1.64 | .57 | .32 | .69 AMP |
| | | | | 187.54 | 316.87 | 165.91 | 112.62 | 236.25 | 27.48 | 181.61 | 346.87 PHASE |
| 488 | 2.27 | 9.12 | 585 | 4.93 | .83 | .57 | 1.72 | 1.67 | .57 | .52 | .55 AMP |
| | | | | 197.38 | 322.88 | 143.91 | 185.72 | 228.38 | 28.56 | 89.48 | 338.12 PHASE |
| 489 | 3.86 | 11.87 | 585 | 6.31 | .83 | .56 | .77 | 1.81 | .78 | .64 | .64 AMP |
| | | | | 282.94 | 325.83 | 182.48 | 118.83 | 234.85 | 35.23 | 189.85 | 335.32 PHASE |
| 490 | 6.88 | 14.26 | 585 | 8.57 | 1.89 | 1.88 | 1.88 | 1.76 | .89 | .79 | .79 AMP |
| | | | | 282.87 | 384.85 | 68.66 | 185.28 | 224.87 | 33.55 | 184.78 | 348.44 PHASE |
| 491 | 7.88 | 15.85 | 584 | 9.91 | 1.31 | 1.48 | 1.81 | 1.72 | .79 | .88 | 1.88 AMP |
| | | | | 283.45 | 298.71 | 58.36 | 184.73 | 222.48 | 55.36 | 125.66 | 336.35 PHASE |
| 492 | 8.19 | 17.41 | 584 | 11.39 | 1.56 | 1.85 | 1.71 | 1.69 | .76 | .86 | 1.13 AMP |
| | | | | 284.96 | 293.32 | 58.18 | 186.17 | 223.65 | 79.76 | 143.61 | 358.38 PHASE |
| 493 | -3.75 | 7.18 | 583 | 2.69 | 1.68 | .99 | 2.81 | 1.45 | .42 | .28 | .77 AMP |
| | | | | 168.98 | 331.88 | 228.83 | 154.81 | 265.18 | 35.39 | 84.99 | 1.49 PHASE |
| 494 | -2.86 | 8.29 | 585 | 3.31 | 1.46 | .83 | 1.86 | 1.33 | .54 | .58 | .74 AMP |
| | | | | 171.67 | 323.58 | 281.66 | 129.15 | 226.76 | 36.49 | 69.11 | 341.98 PHASE |
| 495 | -1.23 | 18.28 | 584 | 4.18 | 1.42 | .73 | 1.87 | 1.45 | .78 | .67 | .45 AMP |
| | | | | 187.88 | 324.54 | 188.34 | 135.98 | 246.71 | 71.71 | 118.48 | 27.55 PHASE |
| 496 | 1.41 | 11.71 | 584 | 5.29 | 1.49 | .57 | 2.15 | 1.32 | .64 | .78 | .52 AMP |
| | | | | 194.93 | 319.77 | 176.82 | 127.87 | 228.22 | 75.88 | 115.14 | 63.29 PHASE |
| 497 | 3.47 | 13.62 | 585 | 7.82 | 1.67 | .37 | 2.17 | 1.26 | .69 | .77 | 1.12 AMP |
| | | | | 199.84 | 312.99 | 132.76 | 125.98 | 217.49 | 98.66 | 132.41 | 76.88 PHASE |
| 498 | 5.76 | 16.49 | 585 | 9.59 | 1.95 | .62 | 2.45 | 1.18 | .78 | 1.88 | 1.79 AMP |
| | | | | 288.45 | 388.17 | 79.61 | 128.53 | 181.48 | 139.87 | 139.41 | 74.24 PHASE |
| 499 | 6.74 | 17.68 | 585 | 18.62 | 2.18 | .68 | 2.46 | 1.23 | .92 | 1.27 | 2.22 AMP |
| | | | | 197.64 | 294.89 | 68.46 | 186.54 | 162.46 | 123.44 | 119.44 | 54.27 PHASE |

TABLE VIII.- Continued

(c) $\mu = 0.30$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 519 | -1.0 | 1.8 | 2.1 | .02322 | .00160 | .00132 |
| 520 | -1.1 | 3.2 | 4.2 | .03749 | .00136 | .00151 |
| 521 | -1.1 | 4.3 | 6.2 | .05053 | .00110 | .00182 |
| 522 | -1.6 | 5.6 | 8.2 | .06380 | .00051 | .00231 |
| 523 | -2.1 | 6.4 | 10.3 | .07940 | .00036 | .00303 |
| 524 | -2.5 | 7.0 | 12.1 | .09271 | .00058 | .00362 |
| 525 | -2.9 | 7.8 | 13.0 | .09711 | .00022 | .00420 |
| 526 | .1 | 3.0 | .2 | .02309 | .00449 | .00101 |
| 527 | .1 | 3.1 | 2.1 | .04247 | .00639 | .00066 |
| 528 | -.4 | 3.6 | 4.1 | .05819 | .00787 | .00054 |
| 529 | -1.1 | 4.7 | 6.1 | .07111 | .00854 | .00072 |
| 530 | -1.5 | 5.5 | 8.2 | .08605 | .00993 | .00095 |
| 531 | -1.7 | 5.6 | 10.1 | .10177 | .01271 | .00121 |
| 532 | -2.9 | 7.6 | 10.9 | .10113 | .00933 | .00210 |
| 533 | -.0 | 3.0 | 4.2 | .01807 | .00004 | .00184 |
| 534 | -.4 | 3.6 | 6.2 | .03349 | .00156 | .00229 |
| 535 | -1.0 | 4.5 | 8.1 | .04657 | .00296 | .00288 |
| 536 | -1.0 | 4.3 | 10.0 | .06510 | .00357 | .00344 |
| 537 | -2.5 | 6.6 | 12.1 | .07177 | .00627 | .00453 |
| 538 | -2.9 | 7.4 | 14.0 | .08694 | .00775 | .00550 |
| 539 | -3.7 | 8.4 | 16.1 | .09856 | .00928 | .00673 |
| 540 | -4.2 | 9.3 | 16.9 | .10198 | .01078 | .00755 |
| 541 | -4.4 | 9.6 | 18.1 | .10935 | .01138 | .00851 |
| 570 | .0 | 3.5 | 6.3 | .01298 | .00121 | .00193 |
| 571 | -.2 | 4.0 | 8.2 | .02701 | .00365 | .00276 |
| 572 | -.7 | 4.8 | 10.2 | .04101 | .00613 | .00374 |
| 573 | -1.6 | 5.7 | 11.9 | .05283 | .00851 | .00473 |
| 574 | -2.0 | 6.7 | 14.0 | .06788 | .01119 | .00599 |
| 575 | -2.9 | 7.9 | 16.3 | .08072 | .01420 | .00744 |
| 576 | -3.4 | 8.6 | 18.1 | .09220 | .01629 | .00873 |
| 577 | -3.8 | 9.2 | 20.0 | .10605 | .01793 | .01060 |

TABLE VIII.- Continued

(c) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|------|--------|--------|--------|--------|-------|--------|--------|--------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 42.58 | 21.42 | 61# | 7.95 | 6.23 | 7.14 | 4.13 | 5.96 | 2.5# | 2.18 | 3.81 |
| 520 | 44.32 | 2# 64 | 61# | 147.47 | 316.66 | 54.45 | 339.33 | 81.39 | 323.89 | 226.73 | 66.31 |
| 521 | 45.74 | 2# 26 | 61# | 8.53 | 6.86 | 6.73 | 3.95 | 5.77 | 2.27 | 2.21 | 2.2# |
| 522 | 47.39 | 18.65 | 611 | 158.16 | 321.19 | 53.72 | 345.48 | 92.27 | 324.23 | 24# 79 | 9# 19 |
| 523 | 49.84 | 18.85 | 61# | 8.47 | 5.69 | 6.25 | 3.82 | 5.15 | 2.43 | 2.3# | 1.92 |
| 524 | 50.37 | 19.61 | 6# 9 | 147.72 | 319.89 | 43.88 | 334.84 | 88.79 | 38# 49 | 225.11 | 86.82 |
| 525 | 51.82 | 2# 64 | 61# | 8.24 | 5.33 | 6.21 | 3.24 | 5.82 | 2.37 | 2.87 | 1.88 |
| 526 | 41.77 | 22.89 | 61# | 146.9# | 326.48 | 45.17 | 337.81 | 85.81 | 313.29 | 244.7# | 133.23 |
| 527 | 43.44 | 19.94 | 61# | 7.57 | 5.89 | 5.87 | 2.76 | 4.33 | 2.11 | 1.83 | 1.58 |
| 528 | 44.94 | 19.33 | 61# | 136.97 | 325.82 | 38.43 | 322.13 | 64.45 | 279.69 | 226.71 | 161.6# |
| 529 | 46.37 | 19.44 | 61# | 7.28 | 5.87 | 5.42 | 2.52 | 3.52 | 1.87 | 1.78 | 3.89 |
| 530 | 47.75 | 19.92 | 61# | 126.96 | 333.27 | 25.46 | 319.13 | 64.16 | 268.76 | 215.13 | 165.91 |
| 531 | 48.77 | 19.85 | 6# 9 | 6.97 | 5.86 | 5.24 | 2.59 | 3.89 | 1.93 | 1.83 | 3.76 |
| 532 | 49.41 | 21.87 | 6# 8 | 121.28 | 338.23 | 19.92 | 311.18 | 65.2# | 252.69 | 219.1# | 17# 69 |
| 533 | 43.21 | 17.39 | 61# | 1# 37 | 6.97 | 6.8# | 3.34 | 5.93 | 3.82 | 2.21 | 1.78 |
| 534 | 44.91 | 16.87 | 611 | 145.76 | 321.83 | 72.85 | 1.32 | 83.41 | 338.66 | 264.73 | 148.52 |
| 535 | 46.51 | 16.41 | 61# | 1# 29 | 6.81 | 6.33 | 2.99 | 4.8# | 2.85 | 2.63 | 1.64 |
| 536 | 48.38 | 15.38 | 61# | 151.88 | 322.76 | 71.76 | 12.41 | 75.32 | 325.64 | 27# 56 | 159.83 |
| 537 | 49.91 | 15.94 | 61# | 9.83 | 6.46 | 6.28 | 2.66 | 4.62 | 2.96 | 2.54 | 1.46 |
| 538 | 51.66 | 15.8# | 61# | 153.33 | 326.98 | 75.29 | 21.71 | 73.46 | 326.88 | 284.52 | 183.68 |
| 539 | 53.13 | 17.82 | 61# | 9.47 | 6.35 | 6.13 | 2.54 | 4.32 | 2.94 | 2.35 | 1.49 |
| 540 | 54.64 | 2# 47 | 61# | 149.97 | 328.79 | 78.71 | 22.28 | 66.86 | 323.96 | 284.47 | 187.61 |
| 541 | 54.71 | 16.73 | 611 | 8.93 | 6.88 | 5.64 | 2.14 | 4.24 | 2.66 | 2.2# | 2.12 |
| 542 | 56.31 | 19.83 | 61# | 143.14 | 328.91 | 61.43 | 9.76 | 44.18 | 386.54 | 265.6# | 169.72 |
| 543 | 45.84 | 14.33 | 611 | 8.13 | 5.7# | 4.79 | 2.86 | 4.28 | 2.22 | 1.99 | 1.93 |
| 544 | 47.67 | 14.12 | 611 | 134.86 | 344.81 | 62.6# | 2.77 | 31.26 | 387.99 | 269.12 | 184.47 |
| 545 | 49.31 | 15.85 | 61# | 8.22 | 6.15 | 4.51 | 1.97 | 3.81 | 1.85 | 1.88 | 2.35 |
| 546 | 51.29 | 15.96 | 6# 8 | 138.33 | 348.44 | 58.14 | 338.23 | 47.79 | 293.88 | 257.85 | 175.66 |
| 547 | 53.16 | 16.24 | 611 | 7.88 | 4.86 | 5.56 | 2.74 | 5.32 | 1.82 | 1.66 | 1.99 |
| 548 | 54.71 | 16.73 | 611 | 153.73 | 332.23 | 45.31 | 344.49 | 95.96 | 342.49 | 244.61 | 88.73 |
| 549 | 56.31 | 19.83 | 61# | 7.73 | 4.79 | 5.75 | 2.97 | 5.18 | 1.82 | 1.66 | 1.86 |
| 550 | 44.81 | 13.77 | 612 | 151.88 | 327.54 | 38.89 | 324.83 | 88.95 | 313.44 | 224.89 | 66.74 |
| 551 | 45.84 | 14.33 | 611 | 7.56 | 4.68 | 5.55 | 2.92 | 5.28 | 1.99 | 1.66 | 2.83 |
| 552 | 47.67 | 14.12 | 611 | 147.17 | 328.69 | 24.82 | 317.65 | 75.49 | 386.43 | 217.89 | 65.64 |
| 553 | 49.31 | 15.85 | 61# | 6.83 | 4.78 | 5.75 | 2.89 | 5.29 | 1.62 | 1.59 | 1.68 |
| 554 | 51.66 | 15.8# | 61# | 158.84 | 348.59 | 39.86 | 328.98 | 95.51 | 328.22 | 255.75 | 116.69 |
| 555 | 53.13 | 17.82 | 61# | 6.95 | 4.71 | 4.98 | 2.57 | 5.88 | 1.61 | 1.62 | 1.77 |
| 556 | 54.64 | 2# 47 | 61# | 137.59 | 341.67 | 19.36 | 384.39 | 78.86 | 388.5# | 225.48 | 75.88 |
| 557 | 56.31 | 19.83 | 61# | 6.32 | 4.71 | 4.44 | 2.46 | 4.95 | 1.52 | 1.78 | 1.91 |
| 558 | 44.81 | 13.77 | 612 | 128.99 | 354.55 | 28.16 | 299.35 | 98.19 | 381.13 | 237.51 | 185.99 |
| 559 | 45.84 | 14.33 | 611 | 6.23 | 5.86 | 4.89 | 2.53 | 5.16 | 1.41 | 1.88 | 2.89 |
| 560 | 47.67 | 14.12 | 611 | 189.65 | 388.81 | 288.71 | 2.58 | 94.76 | 277.2# | 289.86 | 99.47 |
| 561 | 49.31 | 15.85 | 61# | 6.49 | 5.72 | 3.93 | 2.58 | 5.32 | 1.42 | 1.98 | 1.72 |
| 562 | 51.29 | 15.96 | 6# 8 | 97.62 | 2.86 | 346.98 | 264.69 | 98.93 | 257.29 | 192.77 | 77.44 |
| 563 | 53.16 | 16.24 | 611 | 7.49 | 6.35 | 3.68 | 2.94 | 5.41 | 1.68 | 2.59 | 2.88 |
| 564 | 54.71 | 16.73 | 611 | 77.97 | 4.28 | 326.2# | 246.73 | 91.83 | 244.25 | 185.46 | 83.82 |
| 565 | 56.31 | 19.83 | 61# | 7.23 | 3.79 | 4.1# | 1.85 | 4.86 | 1.22 | 1.81 | .95 |
| 566 | 45.84 | 14.33 | 611 | 153.93 | 338.14 | 26.62 | 345.36 | 69.15 | 316.49 | 225.8# | 22.53 |
| 567 | 47.67 | 14.12 | 611 | 7.14 | 3.94 | 4.35 | 2.22 | 4.89 | 1.44 | 1.81 | 1.13 |
| 568 | 49.31 | 15.85 | 61# | 154.8# | 341.98 | 23.3# | 335.78 | 66.93 | 386.81 | 224.28 | 27.52 |
| 569 | 51.29 | 15.96 | 6# 8 | 7.81 | 4.12 | 4.4# | 2.26 | 4.38 | 1.41 | .83 | .87 |
| 570 | 53.16 | 16.24 | 611 | 147.62 | 343.74 | 17.83 | 325.3# | 54.72 | 388.19 | 214.41 | 22.63 |
| 571 | 54.71 | 16.73 | 611 | 6.83 | 4.32 | 4.22 | 2.21 | 4.27 | 1.29 | .88 | .71 |
| 572 | 56.31 | 19.83 | 61# | 143.89 | 354.28 | 19.58 | 332.38 | 66.94 | 389.17 | 228.73 | 46.46 |
| 573 | 45.84 | 14.33 | 611 | 6.57 | 4.68 | 4.8# | 2.33 | 4.38 | 1.27 | .68 | 1.87 |
| 574 | 47.67 | 14.12 | 611 | 131.36 | 357.2# | 5.7# | 323.89 | 64.84 | 289.52 | 286.87 | 29.73 |
| 575 | 49.31 | 15.85 | 61# | 6.58 | 5.83 | 3.67 | 2.28 | 4.21 | 1.13 | .78 | .96 |
| 576 | 51.29 | 15.96 | 6# 8 | 115.88 | 1.51 | 358.94 | 387.15 | 61.72 | 278.91 | 189.12 | 354.39 |
| 577 | 53.16 | 16.24 | 611 | 6.81 | 5.71 | 3.44 | 2.24 | 4.28 | 1.25 | .87 | .98 |
| 578 | 54.71 | 16.73 | 611 | 95.7# | 2.81 | 331.85 | 285.81 | 61.66 | 248.87 | 162.85 | 319.28 |
| 579 | 56.31 | 19.83 | 61# | 9.65 | 7.29 | 3.62 | 2.38 | 3.62 | 1.63 | .93 | .94 |
| 580 | 44.81 | 13.77 | 612 | 63.74 | 1.89 | 297.27 | 243.13 | 58.89 | 229.71 | 179.42 | 271.88 |

TABLE VIII.- Continued

(c) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 62.85 | 25.83 | 618 | 18.28 | 4.86 | 4.38 | 3.29 | .51 | 8.98 | 1.33 | 1.98 AMP |
| | | | | 261.29 | 121.98 | 259.98 | 57.61 | 254.66 | 248.98 | 43.32 | 111.68 PHASE |
| 520 | 68.68 | 29.16 | 618 | 14.44 | 7.45 | 7.72 | 2.76 | 1.69 | 2.79 | 3.35 | 1.39 AMP |
| | | | | 281.37 | 133.55 | 264.22 | 58.11 | 256.44 | 298.67 | 68.11 | 148.18 PHASE |
| 521 | 59.31 | 48.94 | 618 | 22.82 | 11.16 | 11.34 | 3.68 | 5.16 | 3.88 | 4.44 | .98 AMP |
| | | | | 381.81 | 136.17 | 248.44 | 17.88 | 286.72 | 64.43 | 58.42 | 137.51 PHASE |
| 522 | 58.24 | 58.98 | 611 | 33.36 | 13.96 | 14.49 | 4.87 | 5.78 | .35 | 3.65 | .39 AMP |
| | | | | 318.44 | 144.57 | 248.48 | 33.82 | 381.83 | 186.98 | 83.36 | 168.95 PHASE |
| 523 | 55.86 | 65.28 | 618 | 45.59 | 15.19 | 18.78 | 6.86 | 5.27 | 2.47 | 2.25 | .69 AMP |
| | | | | 338.17 | 141.98 | 238.99 | 32.43 | 295.34 | 387.43 | 18.88 | 229.91 PHASE |
| 524 | 53.48 | 81.37 | 609 | 57.78 | 15.68 | 22.28 | 6.83 | 5.81 | 6.69 | 5.89 | 1.58 AMP |
| | | | | 341.86 | 144.72 | 243.58 | 32.78 | 386.77 | 322.85 | 313.56 | 259.69 PHASE |
| 525 | 52.99 | 98.88 | 618 | 63.95 | 15.18 | 24.89 | 6.92 | 4.15 | 8.38 | 6.61 | 1.69 AMP |
| | | | | 341.82 | 144.42 | 242.85 | 26.63 | 328.16 | 348.72 | 322.77 | 282.11 PHASE |
| 526 | 59.58 | 25.72 | 618 | 13.67 | 5.28 | 5.73 | 3.47 | 1.16 | 6.55 | 1.83 | 1.28 AMP |
| | | | | 258.57 | 126.71 | 259.55 | 71.68 | 237.66 | 266.88 | 67.14 | 195.88 PHASE |
| 527 | 56.86 | 44.46 | 618 | 22.61 | 7.64 | 18.17 | 3.49 | 3.98 | 18.88 | 1.16 | 2.88 AMP |
| | | | | 288.93 | 142.87 | 288.45 | 81.38 | 279.12 | 288.49 | 33.32 | 182.21 PHASE |
| 528 | 53.92 | 45.96 | 618 | 29.89 | 18.81 | 18.86 | 3.78 | 6.44 | 5.28 | 2.82 | 1.81 AMP |
| | | | | 382.15 | 146.88 | 282.38 | 81.98 | 296.22 | 358.66 | 81.52 | 214.69 PHASE |
| 529 | 51.54 | 58.78 | 618 | 36.48 | 13.49 | 11.64 | 4.81 | 7.17 | 3.87 | 2.36 | 1.46 AMP |
| | | | | 316.45 | 151.57 | 271.39 | 78.74 | 382.49 | 338.88 | 126.98 | 219.66 PHASE |
| 530 | 48.32 | 64.43 | 618 | 47.84 | 15.82 | 14.73 | 4.84 | 6.98 | 4.89 | 1.68 | 1.68 AMP |
| | | | | 331.37 | 149.71 | 259.87 | 67.84 | 381.84 | 381.83 | 267.11 | 215.96 PHASE |
| 531 | 43.83 | 87.13 | 609 | 61.18 | 17.11 | 18.82 | 5.35 | 5.67 | 8.12 | 6.28 | .73 AMP |
| | | | | 354.88 | 157.58 | 273.96 | 54.16 | 336.44 | 329.32 | 315.66 | 226.34 PHASE |
| 532 | 45.61 | 79.49 | 608 | 68.39 | 16.16 | 19.66 | 4.86 | 5.45 | 7.65 | 4.85 | .65 AMP |
| | | | | 348.38 | 154.66 | 262.32 | 49.59 | 322.17 | 325.62 | 294.96 | 248.48 PHASE |
| 533 | 58.85 | 19.97 | 618 | 8.71 | 4.86 | 5.85 | 2.56 | 2.36 | 3.74 | 2.19 | 1.33 AMP |
| | | | | 273.72 | 114.29 | 269.86 | 72.57 | 189.78 | 311.13 | 94.54 | 138.68 PHASE |
| 534 | 59.86 | 31.45 | 611 | 13.47 | 8.28 | 8.35 | 3.89 | 1.88 | 5.29 | 3.34 | .78 AMP |
| | | | | 295.48 | 118.58 | 258.76 | 17.28 | 18.84 | 49.84 | 55.34 | 133.24 PHASE |
| 535 | 59.27 | 43.74 | 618 | 21.68 | 18.66 | 11.27 | 5.44 | 2.84 | 3.29 | 3.28 | 1.21 AMP |
| | | | | 317.55 | 128.95 | 233.99 | 14.87 | 344.77 | 181.89 | 64.58 | 131.27 PHASE |
| 536 | 58.58 | 68.49 | 618 | 34.85 | 12.94 | 16.33 | 7.48 | 4.44 | 5.16 | 2.27 | 1.13 AMP |
| | | | | 348.98 | 148.74 | 252.28 | 58.98 | 37.65 | 337.38 | 2.95 | 199.98 PHASE |
| 537 | 58.89 | 67.35 | 618 | 48.96 | 12.77 | 28.21 | 6.61 | 3.31 | 4.12 | .62 | 1.18 AMP |
| | | | | 337.56 | 148.96 | 238.89 | 34.91 | 353.48 | 274.77 | 353.32 | 147.18 PHASE |
| 538 | 57.86 | 88.83 | 618 | 57.14 | 12.47 | 24.78 | 6.85 | 3.86 | 6.38 | 2.21 | .93 AMP |
| | | | | 348.56 | 158.85 | 249.67 | 49.83 | .37 | 328.84 | 334.14 | 282.67 PHASE |
| 539 | 56.76 | 184.96 | 618 | 72.23 | 18.69 | 28.31 | 7.86 | 5.48 | 7.28 | 3.86 | .73 AMP |
| | | | | 351.14 | 168.58 | 245.48 | 35.46 | 339.34 | 337.64 | 319.95 | 236.93 PHASE |
| 540 | 57.38 | 118.93 | 618 | 88.11 | 9.65 | 29.97 | 7.89 | 6.59 | 8.81 | 3.96 | .58 AMP |
| | | | | 358.13 | 167.88 | 241.73 | 22.46 | 328.11 | 341.38 | 318.87 | 252.83 PHASE |
| 541 | 57.97 | 126.44 | 618 | 94.46 | 18.85 | 32.76 | 6.32 | 5.56 | 7.65 | 3.83 | .18 AMP |
| | | | | 356.12 | 173.17 | 239.87 | 1.89 | 296.88 | 3.96 | 332.51 | 261.85 PHASE |
| 578 | 57.18 | 16.82 | 612 | 4.93 | 3.11 | 4.41 | 3.35 | 1.71 | 3.75 | 1.75 | .59 AMP |
| | | | | 274.95 | 121.13 | 268.52 | 57.53 | 62.28 | 316.95 | 86.83 | 87.28 PHASE |
| 571 | 58.23 | 28.16 | 611 | 11.44 | 6.11 | 7.38 | 4.55 | 2.38 | 5.89 | 2.55 | .88 AMP |
| | | | | 317.74 | 131.63 | 238.48 | 38.46 | 355.42 | 87.42 | 76.74 | 111.73 PHASE |
| 572 | 59.89 | 41.29 | 611 | 21.43 | 7.69 | 11.88 | 5.86 | 3.26 | .88 | 1.45 | .98 AMP |
| | | | | 339.75 | 143.87 | 228.89 | 31.79 | 18.82 | 86.66 | 86.31 | 124.93 PHASE |
| 573 | 59.59 | 52.46 | 618 | 38.26 | 8.13 | 15.53 | 6.78 | 2.48 | 1.18 | .82 | .86 AMP |
| | | | | 348.18 | 159.46 | 237.14 | 45.88 | 27.12 | 319.68 | 99.65 | 153.36 PHASE |
| 574 | 59.59 | 76.14 | 608 | 46.67 | 8.87 | 28.73 | 7.49 | 1.49 | 4.58 | .87 | .69 AMP |
| | | | | 354.33 | 166.43 | 236.85 | 42.89 | 346.82 | 333.11 | 335.79 | 156.76 PHASE |
| 575 | 68.38 | 97.41 | 611 | 63.44 | 9.48 | 26.18 | 7.83 | 2.17 | 4.83 | .77 | .71 AMP |
| | | | | 353.43 | 178.41 | 232.16 | 34.69 | 272.33 | 318.26 | 26.22 | 168.84 PHASE |
| 576 | 59.98 | 112.67 | 611 | 81.84 | 8.95 | 29.55 | 7.65 | 3.19 | 5.61 | 2.87 | .68 AMP |
| | | | | 355.65 | 198.67 | 231.87 | 23.65 | 243.48 | 358.38 | 38.86 | 146.15 PHASE |
| 577 | 68.83 | 141.83 | 618 | 114.18 | 13.12 | 31.88 | 6.14 | 9.57 | 7.38 | 2.94 | 1.89 AMP |
| | | | | 2.85 | 285.67 | 228.13 | 357.82 | 244.46 | 26.71 | 57.44 | 89.89 PHASE |

TABLE VIII.- Continued

(c) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 3.33 | 7.91 | 61# | 3.77 | 2.59 | .25 | 2.87 | 1.16 | .49 | .51 | .61 AMP |
| 520 | 1.28 | 7.98 | 61# | 309.87 | 124.48 | 46.88 | 316.48 | 23.82 | 181.89 | 322.68 | 134.53 PHASE |
| 521 | -.72 | 8.88 | 61# | 3.78 | 2.25 | .33 | 1.83 | 1.17 | .56 | .69 | .31 AMP |
| 522 | -2.97 | 8.44 | 611 | 325.28 | 138.23 | 37.24 | 317.67 | 38.86 | 174.58 | 326.49 | 148.39 PHASE |
| 523 | -5.72 | 9.68 | 61# | 4.82 | 2.81 | .38 | 1.66 | 1.28 | .71 | .77 | .28 AMP |
| 524 | -8.47 | 12.59 | 609 | 337.64 | 122.58 | 19.82 | 381.75 | 27.89 | 193.93 | 321.38 | 135.91 PHASE |
| 525 | -9.69 | 13.83 | 61# | 4.69 | 1.89 | .89 | 1.81 | 1.15 | .51 | .59 | .19 AMP |
| 526 | 4.43 | 7.95 | 61# | 351.33 | 125.48 | 323.13 | 381.95 | 48.99 | 226.47 | 336.85 | 244.75 PHASE |
| 527 | 2.82 | 8.87 | 61# | 6.11 | 2.12 | .45 | 1.99 | 1.85 | .16 | .98 | .51 AMP |
| 528 | -2.73 | 8.54 | 61# | 358.58 | 115.58 | 246.27 | 287.54 | 13.47 | 227.87 | 323.88 | 227.67 PHASE |
| 529 | -5.67 | 11.26 | 61# | 8.16 | 2.59 | .92 | 2.25 | 1.26 | .46 | 1.86 | 1.82 AMP |
| 530 | -9.49 | 16.75 | 609 | 4.77 | 114.67 | 253.98 | 288.98 | 347.31 | 338.64 | 338.38 | 223.31 PHASE |
| 531 | -9.78 | 15.61 | 608 | 9.82 | 2.78 | 1.18 | 2.41 | 1.45 | .58 | 1.81 | 1.48 AMP |
| 532 | 2.29 | 6.53 | 61# | 5.83 | 118.23 | 249.47 | 287.94 | 345.91 | 342.88 | 324.97 | 227.87 PHASE |
| 533 | 3.32 | 6.85 | 611 | 4.83 | 2.91 | .35 | 1.53 | 1.34 | .48 | .39 | .51 AMP |
| 534 | -1.59 | 7.36 | 61# | 314.38 | 128.16 | 96.65 | 333.92 | 36.45 | 115.59 | 386.96 | 238.85 PHASE |
| 535 | -3.95 | 7.95 | 61# | 4.11 | 2.55 | .16 | 1.45 | .95 | .25 | .76 | .57 AMP |
| 536 | -5.88 | 8.24 | 61# | 335.16 | 138.14 | 86.64 | 337.84 | 29.64 | 88.31 | 316.88 | 217.55 PHASE |
| 537 | -8.22 | 18.63 | 61# | 4.75 | 2.49 | .14 | 1.13 | .99 | .24 | .78 | .53 AMP |
| 538 | -10.62 | 12.91 | 61# | 358.51 | 131.88 | 188.58 | 332.51 | 19.85 | 271.47 | 358.39 | 233.37 PHASE |
| 539 | -11.93 | 14.11 | 61# | 5.77 | 2.53 | .42 | 1.19 | 1.81 | .47 | .73 | .71 AMP |
| 540 | -14.28 | 18.29 | 61# | 357.98 | 133.54 | 217.69 | 317.98 | 4.82 | 331.55 | 187.76 | 285.89 PHASE |
| 541 | 1.19 | 5.88 | 612 | 7.56 | 2.92 | .79 | 1.44 | 1.33 | .52 | .66 | .99 AMP |
| 542 | -2.57 | 5.68 | 611 | 3.43 | 127.35 | 228.34 | 384.33 | 341.89 | 355.98 | 4.68 | 191.78 PHASE |
| 543 | -4.48 | 5.88 | 61# | 11.18 | 3.89 | 1.17 | 1.71 | 1.63 | .39 | .71 | 1.27 AMP |
| 544 | -6.64 | 7.34 | 608 | 18.99 | 127.97 | 248.68 | 312.53 | 344.63 | 159.99 | 294.89 | 225.18 PHASE |
| 545 | -8.98 | 9.11 | 611 | 18.51 | 3.33 | 1.19 | 1.81 | 1.69 | .28 | .64 | 1.26 AMP |
| 546 | -11.73 | 16.78 | 61# | 7.81 | 124.36 | 238.49 | 388.97 | 341.68 | 36.18 | 387.97 | 228.71 PHASE |
| 547 | -14.29 | 16.78 | 61# | 3.28 | 2.87 | .37 | 1.41 | 1.15 | .68 | .32 | .45 AMP |
| 548 | | | | 385.87 | 116.78 | 27.77 | 317.42 | 33.97 | 136.46 | 331.33 | 142.98 PHASE |
| 549 | | | | 3.18 | 1.79 | .22 | 1.36 | 1.16 | .68 | .44 | .44 AMP |
| 550 | | | | 321.26 | 112.59 | 27.41 | 298.23 | 28.89 | 162.56 | 342.19 | 145.46 PHASE |
| 551 | | | | 3.44 | 1.52 | .11 | 1.36 | 1.42 | .62 | .58 | .51 AMP |
| 552 | | | | 336.83 | 113.76 | 293.72 | 284.27 | 28.36 | 168.18 | 318.97 | 128.73 PHASE |
| 553 | | | | 4.29 | 1.71 | .34 | 1.63 | 1.28 | .68 | .98 | .43 AMP |
| 554 | | | | 358.19 | 121.12 | 295.92 | 386.29 | 57.78 | 186.94 | 345.85 | 188.72 PHASE |
| 555 | | | | 4.89 | 1.25 | .49 | 1.64 | 1.34 | .62 | .87 | .47 AMP |
| 556 | | | | 1.14 | 128.51 | 255.85 | 287.37 | 43.44 | 168.29 | 389.67 | 135.62 PHASE |
| 557 | | | | 6.47 | 1.59 | 1.88 | 1.66 | 1.39 | .63 | .91 | .66 AMP |
| 558 | | | | 12.32 | 125.87 | 258.56 | 388.47 | 65.85 | 191.93 | 331.75 | 164.52 PHASE |
| 559 | | | | 8.52 | 2.13 | 1.58 | 1.61 | 1.53 | .23 | .88 | .88 AMP |
| 560 | | | | 15.28 | 119.49 | 251.36 | 292.79 | 53.85 | 211.14 | 336.87 | 155.29 PHASE |
| 561 | | | | 9.77 | 2.33 | 1.66 | 1.46 | 1.64 | .28 | .96 | .72 AMP |
| 562 | | | | 14.85 | 188.47 | 246.34 | 287.86 | 38.45 | 325.87 | 333.88 | 135.46 PHASE |
| 563 | | | | 12.65 | 3.82 | 2.28 | 1.49 | 1.82 | .79 | 1.36 | .57 AMP |
| 564 | | | | 11.24 | 94.83 | 248.62 | 293.33 | 32.46 | 296.58 | 318.24 | 161.48 PHASE |
| 565 | | | | 2.83 | 1.37 | .39 | 1.83 | .91 | .43 | .38 | .28 AMP |
| 566 | | | | 383.51 | 188.13 | 357.82 | 383.22 | 1.49 | 134.54 | 312.35 | 188.29 PHASE |
| 567 | | | | 2.73 | 1.88 | .21 | 1.87 | 1.13 | .55 | .26 | .27 AMP |
| 568 | | | | 324.57 | 112.44 | 333.53 | 298.16 | 11.92 | 164.74 | 383.28 | 189.86 PHASE |
| 569 | | | | 3.81 | .94 | .25 | 1.25 | 1.88 | .51 | .39 | .24 AMP |
| 570 | | | | 342.25 | 117.45 | 298.54 | 285.58 | 18.16 | 149.99 | 382.62 | 187.12 PHASE |
| 571 | | | | 3.53 | .75 | .39 | 1.38 | 1.88 | .53 | .48 | .19 AMP |
| 572 | | | | 357.81 | 132.32 | 282.37 | 295.42 | 23.53 | 168.72 | 313.88 | 122.96 PHASE |
| 573 | | | | 4.68 | .74 | .61 | 1.35 | 1.89 | .64 | .71 | .23 AMP |
| 574 | | | | 8.48 | 135.46 | 267.31 | 291.81 | 22.47 | 176.78 | 382.91 | 98.47 PHASE |
| 575 | | | | 5.92 | .78 | .98 | 1.37 | 1.84 | .78 | .83 | .21 AMP |
| 576 | | | | 13.74 | 135.98 | 251.72 | 281.88 | 23.64 | 175.57 | 284.82 | 47.34 PHASE |
| 577 | | | | 7.65 | 1.11 | 1.55 | 1.34 | 1.36 | .67 | .91 | .35 AMP |
| 578 | | | | 16.38 | 123.61 | 241.84 | 275.86 | 27.89 | 165.22 | 275.12 | 347.73 PHASE |
| 579 | | | | 12.81 | 1.91 | 2.22 | 1.77 | 1.26 | .66 | 1.33 | .66 AMP |
| 580 | | | | 13.83 | 78.18 | 253.81 | 298.18 | 22.81 | 251.85 | 286.61 | 296.88 PHASE |



TABLE VIII.- Continued

(c) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 24.15 | 23.50 | 610 | 12.31 | 8.75 | 7.98 | 2.76 | 3.24 | .54 | .27 | .83 |
| 520 | 25.76 | 24.03 | 610 | 140.19 | 315.74 | 51.61 | 328.72 | 86.95 | 319.25 | 168.63 | 237.53 |
| 521 | 27.34 | 24.25 | 610 | 13.19 | 8.47 | 7.70 | 2.66 | 3.15 | .43 | .32 | .70 |
| 522 | 29.00 | 23.86 | 611 | 142.97 | 319.89 | 51.88 | 337.33 | 99.30 | 324.18 | 187.66 | 256.83 |
| 523 | 30.66 | 23.29 | 610 | 13.93 | 8.19 | 7.82 | 2.47 | 2.76 | .58 | .28 | .66 |
| 524 | 31.90 | 22.88 | 609 | 141.34 | 315.88 | 41.59 | 331.72 | 92.58 | 302.56 | 193.85 | 249.16 |
| 525 | 32.64 | 22.71 | 610 | 14.45 | 7.72 | 8.23 | 1.94 | 2.71 | .42 | .36 | .27 |
| 526 | 22.99 | 24.96 | 610 | 142.83 | 320.76 | 44.05 | 338.84 | 96.02 | 320.56 | 198.08 | 275.22 |
| 527 | 24.71 | 25.06 | 610 | 14.92 | 7.42 | 8.35 | 1.54 | 2.33 | .30 | .49 | .18 |
| 528 | 26.16 | 25.00 | 610 | 139.20 | 315.46 | 31.26 | 322.72 | 74.30 | 268.71 | 189.85 | 356.79 |
| 529 | 27.65 | 25.22 | 610 | 15.44 | 7.54 | 8.20 | 1.36 | 1.85 | .30 | .43 | .64 |
| 530 | 29.00 | 25.36 | 610 | 138.67 | 318.51 | 28.83 | 314.59 | 71.46 | 225.55 | 204.63 | 352.52 |
| 531 | 30.32 | 24.34 | 609 | 15.26 | 7.41 | 9.22 | 1.30 | 1.59 | .49 | .50 | .84 |
| 532 | 30.90 | 24.03 | 608 | 137.87 | 319.64 | 25.80 | 307.47 | 73.31 | 204.11 | 197.79 | 357.55 |
| 533 | 32.59 | 19.00 | 610 | 14.25 | 9.51 | 7.32 | 2.22 | 3.09 | .59 | .21 | .06 |
| 534 | 27.36 | 20.18 | 611 | 140.08 | 319.84 | 66.74 | 345.41 | 94.08 | 325.41 | 176.86 | 253.98 |
| 535 | 28.81 | 20.80 | 610 | 15.35 | 9.28 | 7.12 | 1.78 | 2.51 | .41 | .29 | .31 |
| 536 | 30.37 | 21.43 | 610 | 142.97 | 320.44 | 66.74 | .91 | 89.15 | 346.47 | 167.69 | 335.24 |
| 537 | 32.22 | 20.28 | 610 | 16.03 | 8.87 | 7.18 | 1.54 | 2.21 | .48 | .36 | .23 |
| 538 | 33.90 | 20.23 | 610 | 145.29 | 322.47 | 68.37 | 14.11 | 87.99 | 334.39 | 193.67 | 1.85 |
| 539 | 35.40 | 20.45 | 610 | 16.56 | 8.64 | 7.40 | 1.32 | 1.99 | .46 | .40 | .29 |
| 540 | 36.25 | 20.55 | 610 | 144.73 | 323.24 | 64.52 | 19.53 | 78.79 | 337.66 | 190.82 | 25.09 |
| 541 | 36.99 | 20.23 | 610 | 17.08 | 8.66 | 7.34 | .90 | 1.89 | .36 | .37 | .41 |
| 542 | 27.59 | 13.88 | 612 | 142.47 | 320.28 | 54.70 | 9.00 | 49.28 | 324.98 | 182.56 | 357.58 |
| 543 | 29.11 | 15.66 | 611 | 17.40 | 8.60 | 7.18 | .74 | 2.87 | .21 | .30 | .32 |
| 544 | 30.78 | 16.92 | 611 | 144.63 | 330.03 | 57.99 | 346.30 | 28.91 | 323.97 | 201.80 | 28.45 |
| 545 | 32.36 | 17.45 | 610 | 17.09 | 8.89 | 7.05 | .80 | 1.34 | .10 | .33 | .46 |
| 546 | 34.30 | 18.42 | 608 | 141.52 | 326.75 | 47.90 | 316.31 | 48.64 | 219.96 | 179.87 | 10.49 |
| 547 | 36.25 | 19.46 | 611 | 11.02 | 6.66 | 8.68 | 1.96 | 2.85 | .48 | .24 | .68 |
| 548 | 37.79 | 19.66 | 611 | 142.15 | 327.57 | 45.27 | 332.32 | 96.68 | 314.23 | 217.48 | 248.44 |
| 549 | 39.17 | 20.07 | 610 | 11.82 | 6.78 | 7.23 | 2.87 | 2.59 | .64 | .31 | .62 |
| 550 | | | | 140.38 | 320.46 | 32.03 | 316.92 | 87.41 | 282.70 | 206.76 | 225.71 |
| 551 | | | | 12.60 | 6.90 | 7.50 | 1.91 | 2.54 | .65 | .28 | .56 |
| 552 | | | | 139.72 | 320.40 | 26.81 | 310.23 | 82.18 | 289.46 | 188.93 | 232.24 |
| 553 | | | | 13.09 | 7.16 | 7.93 | 1.77 | 2.58 | .46 | .48 | .40 |
| 554 | | | | 146.68 | 329.01 | 42.97 | 315.27 | 105.65 | 286.45 | 227.48 | 277.39 |
| 555 | | | | 13.71 | 6.69 | 7.73 | 1.49 | 2.57 | .48 | .37 | .39 |
| 556 | | | | 140.05 | 329.39 | 28.03 | 298.06 | 81.89 | 265.01 | 204.53 | 240.66 |
| 557 | | | | 14.07 | 6.37 | 7.43 | 1.36 | 2.42 | .59 | .36 | .43 |
| 558 | | | | 142.69 | 336.47 | 34.69 | 286.20 | 102.74 | 257.60 | 226.81 | 275.86 |
| 559 | | | | 14.25 | 6.14 | 6.96 | 1.37 | 2.45 | .70 | .38 | .54 |
| 560 | | | | 138.63 | 337.13 | 24.19 | 263.95 | 99.57 | 229.18 | 223.32 | 271.72 |
| 561 | | | | 14.31 | 6.39 | 6.66 | 1.42 | 2.48 | .80 | .31 | .47 |
| 562 | | | | 135.60 | 339.44 | 16.52 | 245.67 | 95.13 | 213.66 | 217.06 | 246.34 |
| 563 | | | | 13.96 | 6.67 | 5.86 | 1.82 | 2.46 | .86 | .21 | .40 |
| 564 | | | | 132.33 | 338.83 | 8.67 | 229.50 | 97.33 | 196.59 | 171.88 | 257.57 |
| 565 | | | | 9.97 | 5.19 | 5.06 | 1.43 | 2.11 | .44 | .18 | .35 |
| 566 | | | | 142.26 | 336.64 | 31.39 | 328.82 | 67.46 | 285.52 | 205.06 | 208.80 |
| 567 | | | | 10.79 | 5.51 | 5.00 | 1.50 | 1.86 | .60 | .20 | .41 |
| 568 | | | | 143.82 | 335.38 | 27.82 | 325.45 | 68.91 | 286.74 | 224.87 | 206.02 |
| 569 | | | | 11.44 | 5.79 | 6.21 | 1.38 | 2.06 | .54 | .27 | .28 |
| 570 | | | | 143.29 | 334.82 | 23.56 | 312.55 | 52.42 | 275.41 | 207.63 | 190.02 |
| 571 | | | | 12.02 | 5.96 | 6.39 | 1.34 | 2.14 | .45 | .30 | .28 |
| 572 | | | | 145.65 | 344.69 | 29.93 | 320.12 | 64.49 | 281.52 | 241.94 | 208.20 |
| 573 | | | | 12.94 | 6.31 | 6.58 | 1.41 | 2.31 | .42 | .32 | .41 |
| 574 | | | | 144.56 | 345.56 | 24.17 | 309.66 | 61.56 | 250.20 | 241.41 | 193.60 |
| 575 | | | | 13.59 | 6.61 | 6.54 | 1.30 | 2.29 | .49 | .27 | .38 |
| 576 | | | | 142.34 | 346.51 | 17.76 | 297.85 | 56.87 | 224.07 | 246.02 | 160.83 |
| 577 | | | | 14.02 | 6.89 | 6.03 | 1.29 | 2.26 | .64 | .18 | .42 |
| | | | | 139.38 | 345.98 | 9.94 | 282.64 | 55.34 | 207.28 | 244.90 | 132.61 |
| | | | | 13.78 | 7.85 | 4.60 | 1.26 | 1.81 | .69 | .18 | .49 |
| | | | | 132.60 | 344.60 | 352.93 | 241.61 | 52.95 | 189.75 | 133.23 | 84.81 |

TABLE VIII.- Continued

(c) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 31.95 | 31.88 | 618 | 18.27 | 4.93 | 3.81 | 4.48 | .68 | 13.88 | 2.55 | 1.44 AMP |
| 520 | 38.27 | 38.41 | 618 | 262.84 | 111.98 | 276.87 | 48.55 | 274.18 | 239.93 | 37.58 | 147.19 PHASE |
| 521 | 28.69 | 41.36 | 618 | 13.86 | 7.84 | 5.94 | 4.76 | 1.88 | 4.91 | 6.17 | 1.71 AMP |
| 522 | 27.85 | 48.21 | 611 | 288.91 | 126.34 | 278.21 | 49.77 | 243.64 | 293.69 | 51.22 | 163.34 PHASE |
| 523 | 24.21 | 59.68 | 618 | 28.28 | 18.15 | 8.87 | 6.23 | 5.48 | 4.74 | 8.36 | .73 AMP |
| 524 | 28.98 | 69.18 | 689 | 298.35 | 131.48 | 262.16 | 25.63 | 273.98 | 48.33 | 53.74 | 178.86 PHASE |
| 525 | 19.77 | 75.13 | 618 | 28.41 | 12.81 | 11.57 | 8.11 | 6.25 | 5.97 | 7.52 | 1.82 AMP |
| 526 | 31.81 | 28.84 | 618 | 314.16 | 139.73 | 264.34 | 41.72 | 293.41 | 5.38 | 88.77 | 51.76 PHASE |
| 527 | 28.23 | 42.88 | 618 | 38.12 | 14.48 | 15.29 | 9.88 | 6.28 | 4.55 | 3.81 | 1.56 AMP |
| 528 | 25.17 | 44.42 | 618 | 325.16 | 137.93 | 256.28 | 37.33 | 291.71 | 321.95 | 36.85 | 3.57 PHASE |
| 529 | 22.42 | 52.88 | 618 | 48.84 | 15.58 | 18.76 | 18.78 | 7.21 | 18.77 | 7.32 | 2.96 AMP |
| 530 | 18.43 | 68.36 | 618 | 336.36 | 141.29 | 261.39 | 36.71 | 388.59 | 328.96 | 385.14 | 334.27 PHASE |
| 531 | 12.88 | 76.82 | 689 | 53.85 | 15.33 | 28.56 | 11.28 | 6.54 | 13.28 | 9.26 | 4.64 AMP |
| 532 | 13.92 | 78.53 | 688 | 336.66 | 141.19 | 268.39 | 38.65 | 323.82 | 345.68 | 318.83 | 335.21 PHASE |
| 533 | 28.67 | 25.28 | 618 | 13.12 | 5.22 | 4.14 | 4.37 | 1.14 | 9.48 | 3.44 | 1.82 AMP |
| 534 | 28.64 | 31.57 | 611 | 261.54 | 113.73 | 262.38 | 62.68 | 238.93 | 264.26 | 66.43 | 197.69 PHASE |
| 535 | 28.32 | 36.69 | 618 | 28.19 | 7.56 | 8.44 | 5.19 | 4.73 | 16.83 | 2.44 | 1.32 AMP |
| 536 | 26.88 | 51.68 | 618 | 282.88 | 132.98 | 287.23 | 72.98 | 277.34 | 286.38 | 46.68 | 163.38 PHASE |
| 537 | 26.48 | 57.59 | 618 | 25.52 | 18.82 | 8.86 | 6.38 | 7.34 | 9.14 | 4.79 | 1.34 AMP |
| 538 | 24.18 | 74.54 | 618 | 381.45 | 141.11 | 294.43 | 78.58 | 291.31 | 352.85 | 84.26 | 215.38 PHASE |
| 539 | 22.84 | 88.95 | 618 | 31.66 | 13.56 | 18.21 | 6.99 | 8.82 | 5.74 | 5.69 | .64 AMP |
| 540 | 2.13 | 92.78 | 618 | 314.68 | 146.81 | 288.81 | 88.62 | 299.87 | 348.93 | 119.57 | 287.85 PHASE |
| 541 | 22.48 | 182.65 | 618 | 48.57 | 16.23 | 12.72 | 7.91 | 9.21 | 7.76 | 2.87 | .65 AMP |
| 542 | 27.45 | 19.14 | 612 | 328.14 | 145.73 | 279.88 | 71.48 | 383.76 | 318.16 | 248.46 | 291.88 PHASE |
| 543 | 27.92 | 26.77 | 611 | 52.33 | 18.84 | 16.59 | 8.84 | 9.77 | 12.74 | 18.61 | 1.36 AMP |
| 544 | 28.22 | 43.78 | 618 | 349.52 | 154.87 | 295.18 | 59.88 | 348.59 | 339.88 | 315.24 | 59.84 PHASE |
| 545 | 27.54 | 63.62 | 688 | 52.23 | 17.88 | 17.29 | 7.98 | 8.88 | 12.35 | 7.26 | 1.57 AMP |
| 546 | 26.98 | 88.16 | 611 | 337.14 | 151.46 | 282.38 | 54.13 | 331.88 | 335.94 | 292.72 | 28.85 PHASE |
| 547 | 25.35 | 98.76 | 611 | 8.31 | 4.38 | 3.28 | 3.76 | 2.89 | 5.96 | 4.13 | .97 AMP |
| 548 | 25.58 | 113.82 | 618 | 273.81 | 185.65 | 288.94 | 55.12 | 189.54 | 387.29 | 82.19 | 185.55 PHASE |
| 549 | 27.92 | 26.77 | 611 | 12.44 | 6.82 | 6.85 | 4.79 | 1.65 | 7.58 | 5.89 | 1.12 AMP |
| 550 | 28.23 | 31.97 | 611 | 298.58 | 114.41 | 265.86 | 19.85 | 35.71 | 36.51 | 48.55 | 195.13 PHASE |
| 551 | 28.22 | 43.78 | 618 | 18.31 | 8.94 | 8.31 | 7.66 | 1.83 | 3.76 | 5.75 | .47 AMP |
| 552 | 27.54 | 63.62 | 688 | 389.92 | 125.82 | 249.63 | 17.84 | 346.38 | 85.36 | 68.59 | 168.18 PHASE |
| 553 | 26.98 | 88.16 | 611 | 27.18 | 11.37 | 12.82 | 9.85 | 4.39 | 8.88 | 3.65 | 1.18 AMP |
| 554 | 25.35 | 98.76 | 611 | 339.56 | 144.11 | 267.79 | 51.14 | 39.85 | 332.81 | 345.98 | 228.29 PHASE |
| 555 | 25.58 | 113.82 | 618 | 33.31 | 11.25 | 15.88 | 9.75 | 3.34 | 7.85 | 4.48 | 1.45 AMP |
| 556 | 25.35 | 98.76 | 611 | 338.31 | 144.56 | 253.19 | 35.98 | 353.86 | 277.72 | 384.15 | 126.38 PHASE |
| 557 | 25.58 | 113.82 | 618 | 45.78 | 11.58 | 28.26 | 18.36 | 4.24 | 18.45 | 3.98 | 1.16 AMP |
| 558 | 27.92 | 26.77 | 611 | 341.97 | 154.58 | 264.82 | 48.83 | 355.83 | 318.23 | 314.11 | 195.26 PHASE |
| 559 | 28.23 | 31.97 | 611 | 57.54 | 18.97 | 24.15 | 18.94 | 6.34 | 11.36 | 7.42 | 1.28 AMP |
| 560 | 28.22 | 43.78 | 618 | 344.82 | 155.55 | 259.65 | 35.19 | 334.97 | 333.77 | 387.79 | 251.89 PHASE |
| 561 | 27.54 | 63.62 | 688 | 63.25 | 18.78 | 26.23 | 18.94 | 8.81 | 13.41 | 7.88 | 1.85 AMP |
| 562 | 26.98 | 88.16 | 611 | 344.38 | 161.39 | 254.74 | 21.45 | 323.32 | 336.55 | 388.84 | 242.82 PHASE |
| 563 | 25.35 | 98.76 | 611 | 72.79 | 13.16 | 38.14 | 18.19 | 7.29 | 11.29 | 7.51 | 1.58 AMP |
| 564 | 25.58 | 113.82 | 618 | 358.95 | 164.46 | 249.87 | 2.52 | 298.82 | 357.21 | 326.42 | 285.51 PHASE |
| 565 | 27.92 | 26.77 | 611 | 5.82 | 2.79 | 2.97 | 4.36 | 2.32 | 5.78 | 2.92 | .92 AMP |
| 566 | 28.23 | 31.97 | 611 | 278.71 | 123.24 | 284.89 | 49.84 | 62.94 | 312.44 | 72.57 | 133.11 PHASE |
| 567 | 27.92 | 26.77 | 611 | 9.89 | 5.84 | 4.87 | 5.91 | 2.18 | 6.78 | 4.36 | .83 AMP |
| 568 | 28.23 | 31.97 | 611 | 311.97 | 131.85 | 256.33 | 38.86 | 7.62 | 75.87 | 74.68 | 116.92 PHASE |
| 569 | 28.22 | 43.78 | 618 | 16.93 | 6.34 | 8.28 | 7.58 | 3.75 | 2.86 | 1.83 | .83 AMP |
| 570 | 27.54 | 63.62 | 688 | 331.85 | 148.87 | 242.83 | 31.74 | 18.21 | 31.38 | 182.98 | 121.88 PHASE |
| 571 | 26.98 | 88.16 | 611 | 23.49 | 6.72 | 11.23 | 8.74 | 3.25 | 2.69 | .89 | 1.73 AMP |
| 572 | 25.35 | 98.76 | 611 | 348.27 | 156.14 | 258.17 | 44.89 | 24.17 | 312.21 | 162.83 | 144.32 PHASE |
| 573 | 25.58 | 113.82 | 618 | 35.44 | 7.26 | 15.44 | 18.86 | 2.37 | 7.22 | 2.75 | 1.88 AMP |
| 574 | 25.35 | 98.76 | 611 | 346.78 | 162.21 | 248.23 | 39.77 | 357.68 | 323.45 | 283.54 | 155.81 PHASE |
| 575 | 25.58 | 113.82 | 618 | 48.37 | 7.68 | 28.17 | 11.26 | 2.17 | 7.45 | 1.47 | 2.23 AMP |
| 576 | 25.35 | 98.76 | 611 | 346.47 | 172.78 | 244.73 | 31.78 | 381.26 | 387.82 | 288.62 | 141.61 PHASE |
| 577 | 25.58 | 113.82 | 618 | 61.53 | 7.45 | 23.83 | 11.71 | 2.62 | 7.58 | 2.72 | 1.93 AMP |
| | | | | 348.82 | 182.84 | 243.81 | 19.81 | 253.88 | 338.87 | 355.68 | 119.91 PHASE |
| | | | | 83.87 | 12.98 | 28.37 | 18.82 | 11.81 | 9.17 | 4.81 | 3.39 AMP |
| | | | | 357.65 | 198.82 | 237.81 | 352.27 | 242.99 | 18.33 | 68.79 | 53.27 PHASE |

TABLE VIII.- Continued

(c) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 2.98 | 7.88 | 618 | 3.74 | 2.69 | .13 | 1.76 | 1.85 | .45 | .43 | .41 AMP |
| 520 | .99 | 7.63 | 618 | 382.89 | 189.31 | 23.54 | 287.23 | 343.59 | 62.66 | 288.26 | 88.22 PHASE |
| 521 | -.95 | 7.59 | 618 | 3.76 | 2.36 | .21 | 1.57 | 1.86 | .52 | .58 | .15 AMP |
| 522 | -3.11 | 7.88 | 611 | 318.18 | 114.89 | 14.47 | 288.67 | 358.93 | 127.58 | 287.37 | 92.58 PHASE |
| 523 | -5.76 | 8.74 | 618 | 3.99 | 2.88 | .17 | 1.42 | 1.13 | .61 | .67 | .88 AMP |
| 524 | -8.33 | 18.93 | 609 | 329.79 | 187.91 | 357.27 | 272.48 | 347.26 | 145.52 | 288.69 | 84.78 PHASE |
| 525 | -9.48 | 12.24 | 618 | 4.68 | 1.98 | .87 | 1.55 | 1.81 | .43 | .87 | .12 AMP |
| 526 | 4.83 | 7.67 | 618 | 343.23 | 118.71 | 289.65 | 272.67 | 359.43 | 174.77 | 293.37 | 222.28 PHASE |
| 527 | 1.69 | 7.37 | 618 | 5.84 | 2.81 | .43 | 1.74 | .96 | .15 | .85 | .34 AMP |
| 528 | -.54 | 7.37 | 618 | 358.22 | 188.21 | 282.68 | 258.81 | 333.65 | 146.16 | 278.33 | 184.44 PHASE |
| 529 | -2.88 | 7.71 | 618 | 7.62 | 2.37 | .79 | 2.84 | 1.15 | .38 | .98 | .71 AMP |
| 530 | -5.55 | 9.78 | 618 | 356.21 | 97.33 | 218.94 | 258.77 | 311.81 | 298.81 | 287.18 | 173.27 PHASE |
| 531 | -8.98 | 14.24 | 609 | 8.37 | 2.52 | .92 | 2.19 | 1.31 | .41 | .86 | .99 AMP |
| 532 | -9.28 | 13.26 | 608 | 357.43 | 93.57 | 218.89 | 257.97 | 318.22 | 382.44 | 281.74 | 176.79 PHASE |
| 533 | 2.12 | 6.15 | 618 | 4.83 | 2.97 | .24 | 1.38 | 1.19 | .46 | .38 | .37 AMP |
| 534 | .24 | 6.39 | 611 | 385.59 | 113.69 | 88.18 | 384.51 | 358.53 | 78.67 | 277.84 | 192.97 PHASE |
| 535 | -1.66 | 6.77 | 618 | 4.88 | 2.59 | .18 | 1.25 | .88 | .27 | .68 | .38 AMP |
| 536 | -4.81 | 7.52 | 618 | 325.59 | 115.85 | 93.14 | 386.43 | 352.96 | 65.43 | 276.55 | 173.34 PHASE |
| 537 | -5.79 | 7.87 | 618 | 4.58 | 2.45 | .25 | 1.84 | .98 | .19 | .68 | .36 AMP |
| 538 | -8.14 | 9.89 | 618 | 348.19 | 115.88 | 172.23 | 388.88 | 345.38 | 281.53 | 318.82 | 185.52 PHASE |
| 539 | -10.43 | 11.89 | 618 | 5.34 | 2.42 | .54 | 1.12 | .86 | .32 | .67 | .49 AMP |
| 540 | -11.72 | 13.88 | 618 | 347.84 | 116.61 | 185.86 | 286.24 | 331.82 | 281.84 | 329.97 | 162.17 PHASE |
| 541 | -13.84 | 16.41 | 618 | 6.86 | 2.67 | .84 | 1.35 | 1.89 | .39 | .61 | .69 AMP |
| 542 | -.92 | 4.94 | 612 | 353.58 | 188.88 | 198.74 | 274.17 | 389.48 | 318.53 | 327.36 | 148.67 PHASE |
| 543 | -.96 | 5.42 | 611 | 9.84 | 3.41 | 1.18 | 1.61 | 1.26 | .35 | .42 | .98 AMP |
| 544 | -2.94 | 5.39 | 611 | 1.11 | 187.66 | 285.77 | 282.51 | 389.28 | 185.47 | 242.71 | 177.99 PHASE |
| 545 | -4.79 | 5.75 | 618 | 9.47 | 2.97 | 1.21 | 1.78 | 1.35 | .23 | .48 | .98 AMP |
| 546 | -7.88 | 6.83 | 608 | 358.19 | 185.11 | 199.38 | 271.38 | 387.77 | 357.22 | 269.68 | 171.89 PHASE |
| 547 | -9.38 | 8.49 | 611 | 3.34 | 2.15 | .25 | 1.22 | .97 | .62 | .26 | .32 AMP |
| 548 | -11.29 | 18.78 | 611 | 299.75 | 183.32 | 1.78 | 287.45 | 354.98 | 97.17 | 296.92 | 96.67 PHASE |
| 549 | -14.54 | 15.84 | 618 | 3.25 | 1.87 | .89 | 1.19 | .96 | .57 | .48 | .31 AMP |
| 550 | | | | 314.63 | 99.58 | 355.87 | 268.54 | 341.66 | 117.64 | 298.48 | 98.84 PHASE |
| 551 | | | | 3.54 | 1.62 | .14 | 1.18 | 1.16 | .56 | .51 | .34 AMP |
| 552 | | | | 329.85 | 188.74 | 218.68 | 255.19 | 348.34 | 128.67 | 276.85 | 88.11 PHASE |
| 553 | | | | 4.29 | 1.73 | .29 | 1.41 | .99 | .56 | .83 | .27 AMP |
| 554 | | | | 358.88 | 188.69 | 258.28 | 276.46 | 16.65 | 148.48 | 382.16 | 139.28 PHASE |
| 555 | | | | 4.98 | 1.34 | .48 | 1.48 | 1.18 | .57 | .71 | .29 AMP |
| 556 | | | | 353.82 | 189.41 | 215.93 | 258.28 | 2.25 | 119.92 | 265.44 | 82.62 PHASE |
| 557 | | | | 6.48 | 1.66 | .92 | 1.47 | 1.16 | .62 | .75 | .47 AMP |
| 558 | | | | 4.98 | 113.87 | 222.93 | 271.85 | 25.85 | 148.74 | 285.74 | 111.64 PHASE |
| 559 | | | | 8.25 | 2.15 | 1.39 | 1.46 | 1.38 | .28 | .76 | .68 AMP |
| 560 | | | | 8.86 | 187.28 | 216.85 | 263.88 | 14.88 | 128.74 | 288.33 | 99.94 PHASE |
| 561 | | | | 9.41 | 2.35 | 1.44 | 1.33 | 1.45 | .87 | .88 | .54 AMP |
| 562 | | | | 6.99 | 97.25 | 218.47 | 257.76 | .53 | 34.85 | 282.51 | 79.93 PHASE |
| 563 | | | | 11.95 | 2.98 | 1.75 | 1.34 | 1.59 | .48 | 1.16 | .41 AMP |
| 564 | | | | 3.78 | 81.99 | 214.53 | 264.43 | 353.89 | 254.12 | 262.29 | 186.32 PHASE |
| 565 | | | | 2.94 | 1.58 | .26 | .98 | .79 | .48 | .25 | .22 AMP |
| 566 | | | | 388.88 | 93.86 | 338.87 | 273.11 | 323.78 | 95.97 | 272.42 | 54.33 PHASE |
| 567 | | | | 2.91 | 1.22 | .89 | .94 | .98 | .49 | .22 | .19 AMP |
| 568 | | | | 328.93 | 97.93 | 288.92 | 268.92 | 334.29 | 128.43 | 261.26 | 56.73 PHASE |
| 569 | | | | 3.22 | 1.87 | .16 | 1.89 | .95 | .46 | .33 | .19 AMP |
| 570 | | | | 336.85 | 181.96 | 238.61 | 255.83 | 331.58 | 185.98 | 268.93 | 48.16 PHASE |
| 571 | | | | 3.74 | .84 | .27 | 1.13 | .95 | .48 | .41 | .14 AMP |
| 572 | | | | 351.28 | 116.88 | 248.98 | 265.28 | 345.25 | 125.81 | 268.98 | 57.88 PHASE |
| 573 | | | | 4.71 | .81 | .45 | 1.21 | .96 | .58 | .58 | .17 AMP |
| 574 | | | | 1.18 | 122.57 | 224.37 | 259.75 | 344.15 | 132.64 | 254.48 | 42.23 PHASE |
| 575 | | | | 5.89 | .84 | .88 | 1.22 | .93 | .64 | .69 | .18 AMP |
| 576 | | | | 6.62 | 123.36 | 211.26 | 258.93 | 344.64 | 126.86 | 236.77 | 353.69 PHASE |
| 577 | | | | 7.43 | 1.15 | 1.26 | 1.18 | 1.22 | .63 | .78 | .28 AMP |
| 578 | | | | 9.11 | 114.35 | 286.81 | 246.31 | 358.33 | 115.97 | 227.59 | 299.74 PHASE |
| 579 | | | | 11.38 | 1.86 | 1.58 | .72 | 1.14 | .48 | 1.13 | .58 AMP |
| 580 | | | | 5.56 | 72.15 | 221.96 | 269.55 | 346.87 | 282.94 | 238.41 | 248.33 PHASE |

TABLE VIII.- Continued

(c) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 6.68 | 32.79 | 618 | 17.28 | 13.68 | 8.66 | 1.57 | 2.32 | 1.62 | 1.93 | 2.81 |
| 520 | 8.73 | 32.42 | 618 | 134.82 | 314.81 | 48.29 | 327.69 | 258.59 | 121.29 | 36.36 | 244.23 |
| 521 | 18.66 | 32.18 | 618 | 18.27 | 13.21 | 8.61 | 1.58 | 2.19 | 1.54 | 2.82 | 2.88 |
| 522 | 12.64 | 31.39 | 611 | 137.47 | 316.66 | 47.15 | 339.54 | 268.53 | 122.26 | 58.79 | 268.98 |
| 523 | 14.72 | 31.18 | 618 | 19.23 | 12.62 | 8.88 | 1.61 | 1.99 | 1.67 | 2.19 | 1.72 |
| 524 | 16.22 | 31.45 | 609 | 136.24 | 312.14 | 36.86 | 337.59 | 248.67 | 97.73 | 36.83 | 266.43 |
| 525 | 17.28 | 38.96 | 618 | 28.82 | 11.74 | 9.42 | 1.53 | 1.81 | 1.66 | 2.83 | 1.83 |
| 526 | 5.87 | 32.67 | 618 | 138.98 | 314.14 | 37.95 | 342.82 | 257.22 | 111.28 | 56.99 | 318.82 |
| 527 | 7.85 | 33.78 | 618 | 28.96 | 11.88 | 9.88 | 1.48 | 1.51 | 1.68 | 1.83 | 1.64 |
| 528 | 8.92 | 34.31 | 618 | 136.22 | 306.83 | 25.28 | 329.65 | 236.81 | 84.38 | 41.53 | 341.27 |
| 529 | 18.67 | 34.81 | 618 | 21.95 | 11.18 | 9.84 | 1.25 | 1.16 | 1.62 | 1.83 | 3.11 |
| 530 | 12.68 | 35.28 | 618 | 136.96 | 387.34 | 23.32 | 333.77 | 233.79 | 72.15 | 36.24 | 344.75 |
| 531 | 14.17 | 36.34 | 609 | 22.11 | 18.71 | 9.91 | 1.19 | .97 | 1.68 | 1.95 | 3.88 |
| 532 | 15.81 | 34.85 | 608 | 136.37 | 386.38 | 28.78 | 335.51 | 238.55 | 67.69 | 39.15 | 349.79 |
| 533 | 9.67 | 26.89 | 618 | 19.18 | 14.33 | 7.98 | 1.87 | 2.18 | 1.91 | 1.88 | .91 |
| 534 | 11.48 | 28.22 | 611 | 134.75 | 318.67 | 61.15 | 345.11 | 251.28 | 138.11 | 72.46 | 329.17 |
| 535 | 13.16 | 28.73 | 618 | 28.34 | 13.73 | 7.92 | .95 | 1.59 | 1.73 | 2.33 | 1.73 |
| 536 | 14.86 | 38.37 | 618 | 138.89 | 318.15 | 68.87 | 358.39 | 247.42 | 132.86 | 78.61 | 336.35 |
| 537 | 17.16 | 29.69 | 618 | 148.47 | 315.49 | 8.83 | 1.87 | 1.48 | 1.71 | 2.19 | 1.68 |
| 538 | 19.17 | 38.81 | 618 | 148.98 | 318.72 | 61.16 | 4.71 | 243.67 | 138.48 | 93.44 | 355.46 |
| 539 | 21.82 | 29.58 | 618 | 22.87 | 12.73 | 8.38 | 1.19 | 1.43 | 1.78 | 1.95 | 1.79 |
| 540 | 21.97 | 28.92 | 618 | 141.29 | 317.43 | 55.49 | 2.98 | 243.12 | 124.34 | 92.84 | 357.26 |
| 541 | 22.97 | 29.62 | 618 | 23.12 | 12.58 | 8.64 | 1.84 | 1.48 | 1.55 | 1.88 | 2.43 |
| 542 | 12.48 | 21.18 | 612 | 139.56 | 312.11 | 45.82 | 358.84 | 222.83 | 185.32 | 74.66 | 341.22 |
| 543 | 13.93 | 22.66 | 611 | 23.98 | 12.71 | 8.73 | .72 | 1.57 | 1.25 | 1.55 | 2.34 |
| 544 | 15.73 | 23.72 | 611 | 143.32 | 317.83 | 45.36 | 14.23 | 222.94 | 96.83 | 77.43 | 357.33 |
| 545 | 17.52 | 24.24 | 618 | 23.65 | 12.72 | 8.99 | 1.84 | 1.21 | 1.16 | 1.62 | 2.75 |
| 546 | 19.69 | 26.54 | 608 | 148.47 | 315.49 | 38.26 | 2.23 | 233.45 | 83.51 | 64.42 | 358.28 |
| 547 | 22.81 | 27.69 | 611 | 15.91 | 18.34 | 7.63 | 1.68 | 1.83 | 1.88 | 1.33 | 1.96 |
| 548 | 23.86 | 28.43 | 611 | 134.89 | 319.52 | 41.67 | 319.81 | 264.37 | 142.79 | 45.78 | 261.88 |
| 549 | 25.55 | 28.24 | 618 | 16.85 | 18.56 | 8.45 | 1.68 | 1.78 | .87 | 1.26 | 1.79 |
| 550 | | | | 133.23 | 312.15 | 28.94 | 315.18 | 245.61 | 186.26 | 28.75 | 246.56 |
| 551 | | | | 17.98 | 18.71 | 9.84 | 1.78 | 2.83 | 1.84 | 1.29 | 1.98 |
| 552 | | | | 133.95 | 311.89 | 22.58 | 389.28 | 241.88 | 93.48 | 22.54 | 242.68 |
| 553 | | | | 18.99 | 11.81 | 9.61 | 1.59 | 1.91 | 1.16 | 1.35 | 1.49 |
| 554 | | | | 141.89 | 319.19 | 38.76 | 328.19 | 264.15 | 115.93 | 63.84 | 297.87 |
| 555 | | | | 19.73 | 18.23 | 9.97 | 1.63 | 1.83 | 1.98 | 1.27 | 1.59 |
| 556 | | | | 137.88 | 314.54 | 23.28 | 311.25 | 251.68 | 97.28 | 31.23 | 254.54 |
| 557 | | | | 28.49 | 9.77 | 9.89 | 1.41 | 1.63 | .82 | 1.36 | 1.73 |
| 558 | | | | 148.31 | 317.58 | 29.79 | 328.93 | 278.79 | 183.23 | 46.87 | 286.68 |
| 559 | | | | 21.86 | 9.34 | 9.63 | 1.36 | 1.58 | .79 | 1.47 | 1.98 |
| 560 | | | | 138.13 | 313.45 | 28.44 | 388.53 | 266.63 | 83.72 | 28.68 | 284.85 |
| 561 | | | | 21.14 | 9.36 | 9.38 | 1.38 | 1.68 | .73 | 1.49 | 1.55 |
| 562 | | | | 136.39 | 312.81 | 13.65 | 293.68 | 262.64 | 73.48 | 6.14 | 264.82 |
| 563 | | | | 21.16 | 9.56 | 8.77 | 1.17 | 1.81 | .87 | 2.83 | 1.92 |
| 564 | | | | 135.86 | 389.98 | 8.46 | 282.19 | 262.73 | 56.23 | 3.86 | 278.29 |
| 565 | | | | 14.52 | 7.65 | 9.91 | 1.17 | 1.54 | .84 | .87 | .87 |
| 566 | | | | 135.14 | 323.86 | 25.51 | 384.38 | 258.29 | 132.25 | 24.18 | 285.54 |
| 567 | | | | 15.44 | 8.81 | 7.84 | 1.15 | 1.61 | .55 | .88 | 1.82 |
| 568 | | | | 137.83 | 322.88 | 21.85 | 386.88 | 246.67 | 112.35 | 21.25 | 211.99 |
| 569 | | | | 16.41 | 8.28 | 7.97 | 1.13 | 1.65 | .56 | .68 | .82 |
| 570 | | | | 137.17 | 321.17 | 17.88 | 294.33 | 248.92 | 182.53 | 13.26 | 288.61 |
| 571 | | | | 17.28 | 8.37 | 8.88 | 1.88 | 1.63 | .57 | .62 | .68 |
| 572 | | | | 148.85 | 328.69 | 24.95 | 299.88 | 255.24 | 119.18 | 38.99 | 229.84 |
| 573 | | | | 18.42 | 8.69 | 9.81 | 1.85 | 1.58 | .56 | .68 | .91 |
| 574 | | | | 141.25 | 326.94 | 28.44 | 289.93 | 254.78 | 98.77 | 4.98 | 213.22 |
| 575 | | | | 19.46 | 8.73 | 9.46 | .98 | 1.53 | .49 | .61 | .83 |
| 576 | | | | 148.89 | 324.69 | 15.88 | 282.56 | 254.84 | 88.15 | 344.81 | 176.86 |
| 577 | | | | 28.36 | 8.69 | 9.38 | 1.75 | 1.54 | .73 | .85 | .85 |
| 578 | | | | 139.69 | 321.84 | 9.81 | 276.59 | 252.66 | 67.58 | 328.29 | 132.92 |
| 579 | | | | 28.58 | 9.41 | 7.71 | .79 | 1.37 | .87 | .81 | .81 |
| 580 | | | | 136.86 | 315.93 | 356.36 | 236.65 | 244.62 | 53.74 | 6.95 | 74.16 |

TABLE VIII.- Continued

(c) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 18.78 | 34.62 | 618 | 18.87 | 5.67 | 2.76 | 4.45 | 1.14 | 14.46 | 2.89 | 1.82 AMP |
| 520 | 9.71 | 33.47 | 618 | 274.63 | 119.81 | 281.14 | 58.82 | 275.42 | 242.94 | 41.67 | 168.55 PHASE |
| 521 | 8.75 | 39.91 | 618 | 14.34 | 7.57 | 5.14 | 5.86 | 2.27 | 5.72 | 6.93 | 1.67 AMP |
| 522 | 7.33 | 44.86 | 611 | 286.79 | 138.23 | 287.37 | 59.68 | 248.64 | 295.18 | 53.81 | 168.57 PHASE |
| 523 | 4.83 | 55.14 | 618 | 19.65 | 9.52 | 7.17 | 6.42 | 5.48 | 5.84 | 9.75 | 1.72 AMP |
| 524 | 1.63 | 63.71 | 609 | 298.32 | 132.34 | 272.25 | 35.62 | 271.83 | 36.88 | 56.82 | 178.99 PHASE |
| 525 | .16 | 69.58 | 618 | 25.89 | 11.78 | 9.11 | 8.55 | 6.18 | 1.42 | 8.94 | 1.71 AMP |
| 526 | 11.23 | 29.32 | 618 | 318.81 | 138.18 | 274.13 | 49.88 | 298.13 | 354.17 | 98.36 | 62.31 PHASE |
| 527 | 9.55 | 43.98 | 618 | 33.68 | 13.84 | 12.12 | 18.37 | 6.87 | 5.48 | 3.57 | 2.33 AMP |
| 528 | 7.46 | 42.64 | 618 | 319.27 | 132.98 | 265.31 | 41.17 | 291.11 | 323.57 | 53.17 | 22.64 PHASE |
| 529 | 5.18 | 51.24 | 618 | 41.91 | 14.85 | 15.48 | 11.57 | 7.35 | 12.44 | 7.48 | 3.84 AMP |
| 530 | 1.58 | 56.87 | 618 | 328.93 | 134.17 | 269.67 | 37.53 | 312.49 | 332.24 | 389.28 | 358.48 PHASE |
| 531 | -3.62 | 67.63 | 609 | 45.82 | 14.85 | 17.28 | 12.31 | 6.89 | 14.99 | 9.32 | 5.81 AMP |
| 532 | -3.22 | 67.37 | 608 | 329.78 | 132.99 | 268.81 | 31.85 | 328.46 | 348.98 | 324.31 | 346.24 PHASE |
| 533 | 7.82 | 27.95 | 618 | 13.22 | 5.87 | 3.56 | 4.16 | 1.38 | 18.56 | 4.87 | .56 AMP |
| 534 | 7.48 | 33.82 | 611 | 272.86 | 128.67 | 265.88 | 78.13 | 253.47 | 265.98 | 68.81 | 196.69 PHASE |
| 535 | 7.45 | 36.74 | 618 | 19.29 | 7.93 | 6.82 | 5.32 | 4.76 | 17.61 | 3.83 | .99 AMP |
| 536 | 6.58 | 47.69 | 618 | 285.85 | 132.92 | 289.98 | 78.67 | 278.84 | 288.48 | 56.94 | 124.15 PHASE |
| 537 | 5.98 | 55.32 | 618 | 24.87 | 18.62 | 7.81 | 6.42 | 6.99 | 18.33 | 6.81 | 1.81 AMP |
| 538 | 3.48 | 63.64 | 618 | 381.38 | 139.84 | 388.86 | 82.13 | 298.66 | 354.28 | 87.96 | 212.28 PHASE |
| 539 | 1.28 | 73.22 | 618 | 28.94 | 12.71 | 7.88 | 7.35 | 8.48 | 6.96 | 7.32 | .43 AMP |
| 540 | .75 | 75.88 | 618 | 312.86 | 142.88 | 295.67 | 82.67 | 299.84 | 353.79 | 122.17 | 171.51 PHASE |
| 541 | 1.87 | 85.88 | 618 | 36.31 | 15.87 | 18.84 | 8.32 | 8.86 | 9.89 | 2.11 | 1.88 AMP |
| 542 | 5.62 | 21.38 | 612 | 322.83 | 138.72 | 286.35 | 71.59 | 386.37 | 325.68 | 218.25 | 348.33 PHASE |
| 543 | 4.93 | 29.87 | 611 | 46.28 | 17.33 | 14.89 | 9.29 | 9.89 | 14.56 | 11.38 | 2.98 AMP |
| 544 | 4.32 | 32.16 | 611 | 341.82 | 144.79 | 388.84 | 58.85 | 357.15 | 346.38 | 319.31 | 64.48 PHASE |
| 545 | 3.97 | 48.52 | 618 | 46.93 | 16.12 | 14.58 | 9.88 | 8.95 | 14.36 | 7.84 | 2.72 AMP |
| 546 | 3.88 | 55.41 | 608 | 331.58 | 141.41 | 288.34 | 51.89 | 339.81 | 342.64 | 294.74 | 36.83 PHASE |
| 547 | 1.78 | 67.96 | 611 | 9.12 | 4.53 | 2.89 | 4.86 | 2.48 | 6.94 | 4.95 | .88 AMP |
| 548 | .11 | 75.98 | 611 | 284.44 | 116.58 | 293.76 | 59.85 | 118.46 | 389.43 | 86.92 | 233.89 PHASE |
| 549 | .32 | 92.79 | 618 | 13.82 | 6.84 | 5.24 | 5.18 | .92 | 8.28 | 6.78 | 1.38 AMP |
| 550 | | | | 293.72 | 128.61 | 276.58 | 31.79 | 28.69 | 35.42 | 51.81 | 218.25 PHASE |
| 551 | | | | 17.79 | 8.56 | 6.81 | 7.93 | .88 | 3.68 | 6.61 | .27 AMP |
| 552 | | | | 386.54 | 127.46 | 263.24 | 25.96 | 292.26 | 83.78 | 63.24 | 255.84 PHASE |
| 553 | | | | 24.88 | 18.39 | 18.27 | 18.88 | 3.57 | 18.87 | 4.89 | .97 AMP |
| 554 | | | | 338.16 | 142.86 | 278.74 | 56.84 | 34.85 | 333.19 | 344.61 | 225.59 PHASE |
| 555 | | | | 29.48 | 18.15 | 12.65 | 18.43 | 2.87 | 8.18 | .41 | 1.79 AMP |
| 556 | | | | 323.34 | 148.69 | 263.91 | 48.84 | 345.84 | 281.83 | 289.57 | 118.36 PHASE |
| 557 | | | | 38.87 | 18.31 | 16.57 | 11.13 | 3.98 | 11.86 | 4.38 | 1.48 AMP |
| 558 | | | | 334.18 | 147.62 | 274.27 | 58.97 | 348.38 | 328.67 | 316.41 | 187.28 PHASE |
| 559 | | | | 48.12 | 18.11 | 28.21 | 12.88 | 6.11 | 12.67 | 8.58 | 1.21 AMP |
| 560 | | | | 336.97 | 144.97 | 267.41 | 35.22 | 334.82 | 335.78 | 311.21 | 249.49 PHASE |
| 561 | | | | 52.11 | 18.32 | 22.46 | 12.11 | 7.98 | 14.97 | 9.81 | 1.17 AMP |
| 562 | | | | 337.81 | 149.26 | 268.97 | 28.28 | 322.83 | 338.35 | 384.88 | 231.28 PHASE |
| 563 | | | | 57.65 | 14.43 | 27.87 | 11.82 | 7.51 | 12.74 | 8.75 | 2.85 AMP |
| 564 | | | | 344.48 | 153.66 | 254.16 | 1.44 | 287.85 | 356.97 | 331.94 | 282.56 PHASE |
| 565 | | | | 6.28 | 3.86 | 2.58 | 4.61 | 2.83 | 6.47 | 3.55 | .74 AMP |
| 566 | | | | 292.78 | 135.53 | 291.89 | 51.22 | 63.89 | 314.17 | 78.42 | 147.93 PHASE |
| 567 | | | | 18.61 | 4.98 | 4.18 | 6.18 | 1.81 | 7.86 | 5.81 | .74 AMP |
| 568 | | | | 318.68 | 137.42 | 268.86 | 36.36 | 1.35 | 74.39 | 77.42 | 119.42 PHASE |
| 569 | | | | 15.86 | 6.88 | 6.55 | 7.92 | 3.26 | 1.88 | 2.37 | .87 AMP |
| 570 | | | | 324.78 | 142.45 | 254.42 | 35.19 | 7.42 | 4.53 | 114.62 | 122.12 PHASE |
| 571 | | | | 28.96 | 6.34 | 8.83 | 9.28 | 2.84 | 3.43 | 1.34 | 2.86 AMP |
| 572 | | | | 332.33 | 154.88 | 261.87 | 47.66 | 21.89 | 313.77 | 185.55 | 143.48 PHASE |
| 573 | | | | 29.83 | 6.66 | 12.18 | 18.88 | 2.14 | 8.17 | 3.58 | 2.27 AMP |
| 574 | | | | 338.23 | 157.12 | 259.27 | 42.88 | 352.84 | 323.49 | 288.39 | 156.61 PHASE |
| 575 | | | | 39.73 | 6.59 | 16.85 | 12.35 | 1.98 | 8.45 | 2.86 | 2.87 AMP |
| 576 | | | | 338.67 | 163.77 | 254.97 | 33.58 | 388.29 | 387.93 | 281.17 | 139.43 PHASE |
| 577 | | | | 49.51 | 6.84 | 19.36 | 13.89 | 2.35 | 8.25 | 3.88 | 2.36 AMP |
| 578 | | | | 348.87 | 169.64 | 252.83 | 28.68 | 251.83 | 337.47 | 358.24 | 114.94 PHASE |
| 579 | | | | 63.55 | 12.82 | 25.18 | 11.43 | 11.74 | 9.64 | 5.56 | 4.48 AMP |
| 580 | | | | 351.56 | 173.98 | 242.47 | 352.68 | 242.96 | 15.49 | 66.98 | 58.92 PHASE |

TABLE VIII.- Continued

(c) Continued

| TORSION 50 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 3.63 | 7.24 | 610 | 3.39 | 2.86 | .22 | 1.69 | 1.16 | .55 | .48 | .48 AMP |
| 520 | 1.67 | 7.72 | 610 | 306.54 | 121.60 | 26.84 | 313.39 | 16.71 | 109.07 | 347.35 | 160.80 PHASE |
| 521 | -1.10 | 7.57 | 610 | 3.37 | 2.51 | .31 | 1.50 | 1.12 | .58 | .63 | .16 AMP |
| 522 | -2.20 | 7.53 | 611 | 322.99 | 127.93 | 18.33 | 317.28 | 25.13 | 158.42 | 339.01 | 192.34 PHASE |
| 523 | -4.56 | 7.74 | 610 | 3.52 | 2.16 | .32 | 1.30 | 1.13 | .64 | .78 | .86 AMP |
| 524 | -6.85 | 9.45 | 609 | 335.18 | 123.17 | 4.20 | 304.85 | 19.40 | 174.11 | 330.15 | 217.99 PHASE |
| 525 | -7.91 | 10.53 | 610 | 3.96 | 1.85 | .17 | 1.34 | 1.03 | .47 | .92 | .17 AMP |
| 526 | 4.70 | 7.88 | 610 | 349.69 | 129.14 | 11.20 | 303.27 | 20.76 | 200.66 | 340.42 | 303.73 PHASE |
| 527 | 2.48 | 7.13 | 610 | 4.86 | 1.69 | .12 | 1.61 | 1.02 | .19 | .92 | .26 AMP |
| 528 | .38 | 7.10 | 610 | 357.39 | 118.61 | 210.09 | 283.50 | 2.18 | 164.99 | 325.27 | 260.10 PHASE |
| 529 | -1.67 | 6.64 | 610 | 6.34 | 1.81 | .48 | 1.97 | 1.31 | .28 | 1.01 | .63 AMP |
| 530 | -4.12 | 8.20 | 610 | 3.09 | 110.47 | 206.71 | 282.18 | 347.09 | 336.53 | 332.35 | 236.64 PHASE |
| 531 | -7.13 | 12.50 | 609 | 7.02 | 1.89 | .63 | 2.14 | 1.47 | .40 | .93 | .88 AMP |
| 532 | -7.53 | 11.82 | 608 | 4.26 | 104.34 | 202.47 | 279.33 | 343.38 | 346.79 | 331.56 | 236.30 PHASE |
| 533 | 2.84 | 6.24 | 610 | 3.65 | 3.19 | .19 | 1.28 | 1.22 | .60 | .19 | .40 AMP |
| 534 | .94 | 6.48 | 611 | 308.40 | 125.61 | 76.44 | 330.03 | 31.92 | 127.39 | 356.48 | 249.41 PHASE |
| 535 | -9.90 | 6.74 | 610 | 3.50 | 2.75 | .18 | 1.10 | .90 | .33 | .47 | .34 AMP |
| 536 | -3.14 | 7.22 | 610 | 320.46 | 127.69 | 19.22 | 334.84 | 27.85 | 118.03 | 333.94 | 240.39 PHASE |
| 537 | -4.79 | 7.43 | 610 | 3.74 | 2.41 | .03 | .91 | .84 | .23 | .59 | .27 AMP |
| 538 | -6.93 | 8.00 | 610 | 343.55 | 130.40 | 356.24 | 331.25 | 19.69 | 203.03 | 4.96 | 251.26 PHASE |
| 539 | -9.00 | 10.33 | 610 | 4.31 | 2.20 | .20 | .97 | .84 | .17 | .73 | .37 AMP |
| 540 | -10.20 | 11.50 | 610 | 352.07 | 131.94 | 197.54 | 314.20 | 6.41 | 299.29 | 21.42 | 193.19 PHASE |
| 541 | -12.17 | 14.40 | 610 | 5.43 | 2.16 | .54 | 1.24 | 1.00 | .20 | .69 | .60 AMP |
| 542 | 1.87 | 5.00 | 612 | 350.60 | 121.82 | 194.24 | 297.44 | 344.94 | 1.21 | 19.77 | 189.58 PHASE |
| 543 | .09 | 5.24 | 611 | 7.01 | 2.67 | 1.07 | 1.64 | 1.11 | .31 | .28 | .91 AMP |
| 544 | -1.00 | 5.09 | 611 | 5.40 | 111.40 | 197.65 | 304.77 | 345.39 | 135.65 | 266.31 | 234.77 PHASE |
| 545 | -3.55 | 5.62 | 610 | 7.67 | 2.20 | 1.01 | 1.74 | 1.20 | .25 | .32 | .85 AMP |
| 546 | -5.70 | 6.63 | 609 | 2.85 | 111.27 | 197.03 | 294.81 | 346.63 | 36.05 | 327.25 | 226.74 PHASE |
| 547 | -7.09 | 8.42 | 611 | 2.99 | 2.42 | .37 | 1.19 | 1.07 | .66 | .20 | .36 AMP |
| 548 | -9.75 | 10.30 | 611 | 305.20 | 114.94 | 22.23 | 318.03 | 28.04 | 133.44 | 358.76 | 163.65 PHASE |
| 549 | -12.05 | 13.52 | 610 | 2.09 | 2.11 | .25 | 1.12 | .97 | .62 | .49 | .40 AMP |
| 550 | | | | 321.40 | 112.34 | 5.71 | 292.26 | 12.48 | 149.41 | 349.20 | 163.63 PHASE |
| 551 | | | | 3.13 | 1.81 | .07 | 1.07 | 1.15 | .63 | .59 | .38 AMP |
| 552 | | | | 330.38 | 116.00 | 337.10 | 287.36 | 15.92 | 151.49 | 327.44 | 140.06 PHASE |
| 553 | | | | 3.73 | 1.72 | .17 | 1.22 | .99 | .64 | .79 | .28 AMP |
| 554 | | | | 4.00 | 120.32 | 306.10 | 303.10 | 44.11 | 173.00 | 347.09 | 207.40 PHASE |
| 555 | | | | 4.33 | 1.39 | .24 | 1.15 | 1.15 | .65 | .71 | .28 AMP |
| 556 | | | | 3.08 | 120.96 | 229.89 | 285.32 | 29.15 | 150.00 | 312.83 | 145.99 PHASE |
| 557 | | | | 5.53 | 1.46 | .57 | 1.24 | 1.25 | .76 | .76 | .45 AMP |
| 558 | | | | 14.00 | 132.50 | 223.67 | 292.49 | 50.81 | 166.06 | 332.00 | 165.81 PHASE |
| 559 | | | | 7.10 | 1.76 | 1.00 | 1.30 | 1.52 | .52 | .83 | .63 AMP |
| 560 | | | | 16.76 | 121.25 | 200.50 | 200.19 | 37.04 | 143.14 | 336.70 | 152.65 PHASE |
| 561 | | | | 8.22 | 1.90 | 1.04 | 1.29 | 1.71 | .38 | .96 | .65 AMP |
| 562 | | | | 15.15 | 109.34 | 194.90 | 271.66 | 25.44 | 110.63 | 330.51 | 129.42 PHASE |
| 563 | | | | 10.44 | 2.30 | 1.04 | 1.29 | 1.08 | .15 | 1.42 | .47 AMP |
| 564 | | | | 10.50 | 87.45 | 196.02 | 275.76 | 10.10 | 204.94 | 312.17 | 158.62 PHASE |
| 565 | | | | 2.54 | 1.68 | .27 | .88 | .84 | .42 | .28 | .30 AMP |
| 566 | | | | 307.41 | 103.31 | 14.32 | 303.61 | .00 | 128.91 | 323.55 | 117.11 PHASE |
| 567 | | | | 2.53 | 1.37 | .07 | .07 | .96 | .51 | .25 | .20 AMP |
| 568 | | | | 330.10 | 109.74 | 350.63 | 293.04 | 4.21 | 154.09 | 316.72 | 126.56 PHASE |
| 569 | | | | 2.05 | 1.17 | .06 | .96 | .97 | .47 | .35 | .23 AMP |
| 570 | | | | 347.71 | 117.09 | 241.96 | 283.56 | .33 | 139.92 | 304.79 | 114.73 PHASE |
| 571 | | | | 3.38 | .95 | .17 | .90 | .99 | .49 | .40 | .17 AMP |
| 572 | | | | 3.04 | 133.91 | 232.03 | 291.00 | 14.09 | 150.66 | 311.00 | 124.89 PHASE |
| 573 | | | | 4.34 | .90 | .33 | 1.03 | 1.03 | .60 | .60 | .22 AMP |
| 574 | | | | 12.50 | 144.39 | 217.41 | 205.96 | 13.47 | 161.36 | 295.95 | 101.57 PHASE |
| 575 | | | | 5.54 | .97 | .65 | 1.06 | 1.06 | .71 | .77 | .25 AMP |
| 576 | | | | 17.50 | 140.35 | 210.42 | 270.18 | 15.09 | 150.07 | 276.29 | 42.30 PHASE |
| 577 | | | | 6.91 | 1.17 | .97 | 1.03 | 1.32 | .74 | .91 | .34 AMP |
| 578 | | | | 19.77 | 144.35 | 207.89 | 271.70 | 17.98 | 146.74 | 267.54 | 357.92 PHASE |
| 579 | | | | 10.41 | 1.33 | .71 | .46 | 1.20 | .39 | 1.33 | .65 AMP |
| 580 | | | | 13.75 | 89.78 | 222.02 | 305.53 | 14.41 | 220.34 | 200.67 | 303.49 PHASE |

TABLE VIII.- Continued

(c) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | -8.57 | 34.85 | 618 | 28.63 | 12.68 | 4.35 | 6.47 | 4.64 | 1.71 | 2.65 | 3.74 AMP |
| 520 | -5.66 | 34.88 | 618 | 129.34 | 315.57 | 357.77 | 155.18 | 263.39 | 297.24 | 219.84 | 67.35 PHASE |
| 521 | -2.87 | 34.84 | 618 | 21.29 | 12.42 | 4.53 | 5.83 | 4.88 | 1.38 | 2.78 | 2.71 AMP |
| 522 | .23 | 34.56 | 611 | 134.83 | 318.47 | 1.15 | 162.73 | 276.52 | 385.88 | 232.58 | 96.87 PHASE |
| 523 | 3.82 | 36.31 | 618 | 21.98 | 12.11 | 4.7 | 5.28 | 4.63 | 1.18 | 2.95 | 2.46 AMP |
| 524 | 6.93 | 38.96 | 609 | 136.84 | 313.39 | 352.43 | 156.28 | 266.79 | 273.83 | 215.42 | 96.16 PHASE |
| 525 | 8.44 | 39.35 | 618 | 22.76 | 11.63 | 4.81 | 4.47 | 4.57 | 1.19 | 2.78 | 1.87 AMP |
| 526 | -11.34 | 35.41 | 618 | 148.66 | 316.98 | 359.84 | 159.48 | 272.38 | 277.88 | 231.72 | 148.44 PHASE |
| 527 | -8.15 | 36.82 | 618 | 23.72 | 11.21 | 4.87 | 3.57 | 4.86 | 1.38 | 2.38 | 2.88 AMP |
| 528 | -4.91 | 36.83 | 618 | 148.38 | 389.92 | 353.14 | 143.85 | 253.28 | 278.93 | 217.64 | 156.96 PHASE |
| 529 | -1.71 | 36.92 | 618 | 25.27 | 11.84 | 4.18 | 3.25 | 3.57 | 1.36 | 2.15 | 4.93 AMP |
| 530 | 1.82 | 39.86 | 618 | 142.88 | 311.65 | 355.48 | 139.56 | 253.26 | 279.32 | 214.33 | 159.24 PHASE |
| 531 | 5.48 | 48.24 | 609 | 25.61 | 18.79 | 4.86 | 3.88 | 3.48 | 1.48 | 2.22 | 5.95 AMP |
| 532 | 5.49 | 39.87 | 608 | 143.17 | 318.97 | 358.69 | 134.68 | 258.92 | 284.34 | 213.69 | 163.24 PHASE |
| 533 | -5.72 | 29.17 | 618 | 21.29 | 14.48 | 4.32 | 5.12 | 4.84 | 1.16 | 2.24 | 1.47 AMP |
| 534 | -3.28 | 31.48 | 611 | 138.81 | 316.88 | 7.39 | 172.83 | 265.79 | 338.18 | 258.83 | 149.48 PHASE |
| 535 | -4.6 | 32.98 | 618 | 21.56 | 14.17 | 4.84 | 4.29 | 4.87 | 1.86 | 2.58 | 2.78 AMP |
| 536 | 2.68 | 34.27 | 618 | 135.61 | 315.59 | 17.45 | 188.94 | 258.49 | 315.82 | 254.99 | 154.38 PHASE |
| 537 | 5.72 | 34.46 | 618 | 22.11 | 13.57 | 4.83 | 3.67 | 3.82 | 1.33 | 2.24 | 2.57 AMP |
| 538 | 8.93 | 35.98 | 618 | 148.32 | 317.84 | 28.48 | 185.68 | 255.79 | 312.86 | 269.73 | 172.31 PHASE |
| 539 | 11.96 | 37.68 | 618 | 142.36 | 317.11 | 29.99 | 181.85 | 247.77 | 382.14 | 272.49 | 173.84 PHASE |
| 540 | 13.45 | 37.68 | 618 | 24.18 | 12.88 | 3.98 | 2.66 | 3.22 | 1.53 | 1.68 | 3.76 AMP |
| 541 | 14.98 | 38.73 | 618 | 142.98 | 311.58 | 23.98 | 172.34 | 224.34 | 383.78 | 268.36 | 155.62 PHASE |
| 542 | -2.86 | 25.34 | 612 | 25.83 | 12.25 | 3.36 | 1.72 | 2.67 | 1.73 | 1.73 | 3.92 AMP |
| 543 | -2.86 | 25.34 | 612 | 148.34 | 316.56 | 23.57 | 168.84 | 199.38 | 69.24 | 226.59 | 171.81 PHASE |
| 544 | -2.86 | 25.34 | 612 | 26.17 | 11.83 | 3.49 | 2.85 | 1.81 | 1.77 | 1.16 | 4.25 AMP |
| 545 | -2.86 | 25.34 | 612 | 145.63 | 315.97 | 21.82 | 149.32 | 242.61 | 3.91 | 237.48 | 167.48 PHASE |
| 546 | -2.86 | 25.34 | 612 | 19.14 | 18.69 | 3.78 | 4.48 | 5.19 | 1.75 | 1.44 | 3.88 AMP |
| 547 | -2.86 | 25.34 | 612 | 138.37 | 328.78 | 352.66 | 168.87 | 275.18 | 281.91 | 212.85 | 79.12 PHASE |
| 548 | -2.86 | 25.34 | 612 | 19.82 | 18.88 | 4.54 | 4.43 | 4.86 | 1.54 | 1.41 | 2.68 AMP |
| 549 | -2.86 | 25.34 | 612 | 131.66 | 314.77 | 344.57 | 142.69 | 265.18 | 252.55 | 196.28 | 64.18 PHASE |
| 550 | -2.86 | 25.34 | 612 | 28.58 | 11.82 | 5.24 | 4.24 | 4.81 | 1.73 | 1.49 | 2.79 AMP |
| 551 | -2.86 | 25.34 | 612 | 134.42 | 314.46 | 348.35 | 138.88 | 268.59 | 225.27 | 184.48 | 61.35 PHASE |
| 552 | -2.86 | 25.34 | 612 | 21.58 | 11.68 | 5.28 | 3.77 | 4.75 | 1.88 | 1.56 | 2.39 AMP |
| 553 | -2.86 | 25.34 | 612 | 143.79 | 322.88 | 8.88 | 151.58 | 283.82 | 293.36 | 223.66 | 118.68 PHASE |
| 554 | -2.86 | 25.34 | 612 | 22.86 | 11.25 | 5.61 | 2.99 | 4.83 | 1.26 | 1.36 | 2.31 AMP |
| 555 | -2.86 | 25.34 | 612 | 141.86 | 318.35 | 348.51 | 133.53 | 262.34 | 292.29 | 187.27 | 75.56 PHASE |
| 556 | -2.86 | 25.34 | 612 | 23.15 | 11.44 | 5.36 | 2.25 | 4.84 | 1.46 | 1.39 | 2.54 AMP |
| 557 | -2.86 | 25.34 | 612 | 147.62 | 322.22 | 355.78 | 127.97 | 283.84 | 7.73 | 288.56 | 188.71 PHASE |
| 558 | -2.86 | 25.34 | 612 | 24.37 | 11.55 | 5.83 | 1.93 | 5.26 | 1.43 | 1.43 | 2.81 AMP |
| 559 | -2.86 | 25.34 | 612 | 147.79 | 318.98 | 345.86 | 181.16 | 279.86 | 12.86 | 172.81 | 185.78 PHASE |
| 560 | -2.86 | 25.34 | 612 | 24.92 | 11.91 | 4.98 | 1.82 | 5.49 | 1.86 | 1.43 | 2.31 AMP |
| 561 | -2.86 | 25.34 | 612 | 147.14 | 317.48 | 337.96 | 77.69 | 274.34 | 7.28 | 157.87 | 88.79 PHASE |
| 562 | -2.86 | 25.34 | 612 | 25.46 | 12.49 | 4.68 | 2.29 | 5.41 | 1.97 | 2.84 | 2.88 AMP |
| 563 | -2.86 | 25.34 | 612 | 147.28 | 315.32 | 329.91 | 52.87 | 277.13 | 12.27 | 163.82 | 96.77 PHASE |
| 564 | -2.86 | 25.34 | 612 | 17.65 | 8.26 | 3.51 | 2.88 | 3.98 | 1.15 | 1.87 | 1.27 AMP |
| 565 | -2.86 | 25.34 | 612 | 131.16 | 322.78 | 337.17 | 155.34 | 244.47 | 73.28 | 187.74 | 28.58 PHASE |
| 566 | -2.86 | 25.34 | 612 | 18.28 | 8.52 | 4.31 | 3.81 | 3.88 | 1.36 | 1.87 | 1.45 AMP |
| 567 | -2.86 | 25.34 | 612 | 135.22 | 323.32 | 341.74 | 147.32 | 246.31 | 126.12 | 183.96 | 33.58 PHASE |
| 568 | -2.86 | 25.34 | 612 | 18.89 | 9.82 | 4.89 | 2.88 | 3.99 | 1.25 | 1.69 | 1.19 AMP |
| 569 | -2.86 | 25.34 | 612 | 137.68 | 321.74 | 342.81 | 136.81 | 231.15 | 115.18 | 168.78 | 38.87 PHASE |
| 570 | -2.86 | 25.34 | 612 | 19.58 | 9.26 | 5.22 | 2.69 | 4.85 | 1.28 | 1.66 | 1.97 AMP |
| 571 | -2.86 | 25.34 | 612 | 143.47 | 329.26 | 352.88 | 145.35 | 241.78 | 181.12 | 183.81 | 49.41 PHASE |
| 572 | -2.86 | 25.34 | 612 | 28.67 | 9.88 | 5.66 | 2.49 | 4.28 | 1.36 | 1.26 | 1.26 AMP |
| 573 | -2.86 | 25.34 | 612 | 146.88 | 327.14 | 351.17 | 133.53 | 248.34 | 49.78 | 155.94 | 34.84 PHASE |
| 574 | -2.86 | 25.34 | 612 | 21.97 | 18.48 | 6.88 | 2.22 | 4.28 | 1.55 | 1.83 | 1.85 AMP |
| 575 | -2.86 | 25.34 | 612 | 147.44 | 324.36 | 348.77 | 118.23 | 236.15 | 34.61 | 148.83 | 355.91 PHASE |
| 576 | -2.86 | 25.34 | 612 | 23.36 | 18.95 | 5.88 | 2.86 | 4.48 | 1.74 | 1.94 | 1.83 AMP |
| 577 | -2.86 | 25.34 | 612 | 148.24 | 321.28 | 344.72 | 98.63 | 236.93 | 16.66 | 138.54 | 386.99 PHASE |
| 578 | -2.86 | 25.34 | 612 | 24.88 | 12.44 | 4.58 | 1.62 | 3.81 | 1.78 | 1.69 | 1.14 AMP |
| 579 | -2.86 | 25.34 | 612 | 149.85 | 314.45 | 338.53 | 59.26 | 234.32 | 3.69 | 183.58 | 248.82 PHASE |

TABLE VIII.- Continued

(c) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO 18 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 519 | -9.25 | 22.89 | 61# | 5.75 | 4.85 | 2.78 | 2.7# | 2.66 | 6.44 | 19.41 | 1.86 | AMP |
| | | | | 152.88 | 315.18 | 2.81 | 117.93 | 256.37 | 241.62 | 19.42 | 78.37 | PHASE |
| 52# | -8.82 | 19.78 | 61# | 5.82 | 3.39 | 3.27 | 2.57 | 3.87 | 2.88 | 2.15 | 1.45 | AMP |
| | | | | 164.45 | 317.88 | 354.29 | 118.18 | 259.27 | 294.92 | 44.14 | 116.59 | PHASE |
| 521 | -7.82 | 16.82 | 61# | 3.73 | 2.64 | 3.48 | 2.55 | 4.25 | 2.24 | 3.49 | 1.89 | AMP |
| | | | | 179.17 | 313.58 | 337.81 | 76.88 | 258.85 | 19.38 | 54.18 | 186.48 | PHASE |
| 522 | -6.48 | 18.87 | 611 | 2.57 | 1.93 | 4.88 | 3.63 | 4.39 | .98 | 3.46 | 1.41 | AMP |
| | | | | 216.41 | 321.96 | 339.56 | 72.47 | 273.86 | 335.89 | 92.47 | 97.28 | PHASE |
| 523 | -4.82 | 28.68 | 61# | 2.82 | 1.56 | 4.82 | 4.54 | 3.87 | 2.75 | 1.27 | 1.48 | AMP |
| | | | | 273.59 | 325.18 | 325.83 | 55.52 | 266.84 | 315.59 | 61.68 | 88.89 | PHASE |
| 524 | -3.84 | 27.89 | 689 | 4.73 | 2.68 | 5.72 | 5.87 | 3.69 | 5.97 | 2.75 | 1.17 | AMP |
| | | | | 385.88 | 339.27 | 318.14 | 49.31 | 286.46 | 327.31 | 388.26 | 85.85 | PHASE |
| 525 | -3.28 | 31.93 | 61# | 5.92 | 1.63 | 5.14 | 5.36 | 3.36 | 7.18 | 3.38 | 75 | AMP |
| | | | | 389.85 | 345.63 | 313.58 | 41.38 | 388.47 | 343.88 | 318.29 | 69.18 | PHASE |
| 526 | -9.89 | 19.63 | 61# | 6.28 | 4.79 | 2.12 | 2.19 | 2.82 | 4.57 | 1.85 | .61 | AMP |
| | | | | 157.28 | 318.11 | 3.63 | 128.77 | 256.66 | 262.63 | 59.17 | 149.82 | PHASE |
| 527 | -9.76 | 24.37 | 61# | 5.19 | 3.96 | 2.88 | 2.41 | 3.61 | 7.47 | .78 | 1.31 | AMP |
| | | | | 176.68 | 314.71 | 354.67 | 117.19 | 261.29 | 282.45 | 45.84 | 127.15 | PHASE |
| 528 | -8.62 | 18.92 | 61# | 3.92 | 2.92 | 3.24 | 2.77 | 4.85 | 4.34 | 2.28 | 1.32 | AMP |
| | | | | 195.54 | 315.68 | 5.91 | 186.14 | 268.32 | 358.18 | 86.88 | 166.42 | PHASE |
| 529 | -7.13 | 19.18 | 61# | 2.83 | 2.28 | 3.55 | 3.38 | 4.15 | 2.95 | 3.25 | 1.44 | AMP |
| | | | | 223.81 | 315.84 | 4.22 | 97.85 | 274.35 | 353.39 | 119.88 | 152.48 | PHASE |
| 53# | -6.83 | 22.75 | 61# | 2.82 | 1.55 | 4.85 | 3.83 | 3.57 | 3.91 | 1.82 | 1.34 | AMP |
| | | | | 277.61 | 323.49 | 352.68 | 82.59 | 276.68 | 326.22 | 189.62 | 122.51 | PHASE |
| 531 | -5.69 | 38.77 | 689 | 5.56 | 1.64 | 5.18 | 3.92 | 2.57 | 6.35 | 4.17 | 2.45 | AMP |
| | | | | 338.13 | 11.83 | 351.11 | 78.58 | 342.96 | 349.75 | 316.28 | 186.82 | PHASE |
| 532 | -4.98 | 29.69 | 688 | 6.28 | 1.96 | 5.83 | 4.11 | 3.32 | 6.67 | 2.33 | 1.98 | AMP |
| | | | | 313.87 | 358.66 | 341.18 | 64.18 | 328.86 | 344.82 | 287.82 | 182.67 | PHASE |
| 533 | -9.11 | 17.84 | 61# | 5.28 | 3.49 | 2.73 | 1.92 | 1.65 | 3.32 | 1.98 | .65 | AMP |
| | | | | 147.86 | 324.27 | 354.53 | 189.22 | 254.96 | 388.49 | 98.97 | 77.46 | PHASE |
| 534 | -18.86 | 16.54 | 611 | 4.15 | 2.83 | 3.42 | 2.15 | 2.89 | 3.36 | 2.58 | .48 | AMP |
| | | | | 155.88 | 328.39 | 336.88 | 73.32 | 261.44 | 24.24 | 58.79 | 79.62 | PHASE |
| 535 | -9.32 | 15.46 | 61# | 2.77 | 2.42 | 3.89 | 3.84 | 2.69 | 1.25 | 2.68 | 1.81 | AMP |
| | | | | 168.43 | 321.57 | 327.77 | 58.54 | 251.37 | 71.47 | 65.61 | 44.17 | PHASE |
| 536 | -7.75 | 18.17 | 61# | .88 | 2.28 | 4.61 | 4.15 | 2.14 | 4.78 | 1.68 | .98 | AMP |
| | | | | 215.43 | 338.89 | 338.45 | 71.78 | 383.78 | 327.82 | 326.31 | 131.88 | PHASE |
| 537 | -5.91 | 18.93 | 61# | 2.18 | 2.17 | 5.27 | 4.45 | 2.73 | 3.65 | .25 | 1.79 | AMP |
| | | | | 278.47 | 328.68 | 328.46 | 58.33 | 276.32 | 279.86 | 192.92 | 86.67 | PHASE |
| 538 | -5.82 | 28.98 | 61# | 4.72 | 2.49 | 6.29 | 4.95 | 3.21 | 5.48 | 1.65 | 1.58 | AMP |
| | | | | 311.95 | 335.67 | 321.62 | 57.84 | 298.42 | 318.88 | 387.89 | 127.22 | PHASE |
| 539 | -3.95 | 27.87 | 61# | 7.45 | 2.85 | 7.23 | 5.37 | 4.19 | 6.87 | 3.37 | 1.18 | AMP |
| | | | | 318.57 | 335.66 | 387.29 | 38.66 | 298.41 | 333.81 | 388.24 | 123.72 | PHASE |
| 548 | -2.52 | 38.28 | 61# | 7.84 | 2.35 | 7.92 | 5.21 | 5.41 | 7.33 | 3.52 | .96 | AMP |
| | | | | 319.92 | 328.63 | 292.84 | 18.86 | 294.14 | 334.88 | 381.72 | 122.86 | PHASE |
| 541 | -.41 | 28.84 | 61# | 7.19 | 1.18 | 9.27 | 4.68 | 6.23 | 6.33 | 3.55 | .32 | AMP |
| | | | | 338.81 | 215.72 | 268.37 | 358.68 | 277.83 | 348.91 | 329.82 | 133.58 | PHASE |
| 578 | -8.68 | 14.91 | 612 | 5.81 | 2.67 | 2.49 | 1.75 | 1.28 | 2.88 | 1.55 | .38 | AMP |
| | | | | 141.44 | 328.18 | 348.38 | 82.15 | 242.92 | 389.85 | 83.35 | 63.42 | PHASE |
| 571 | -9.53 | 13.11 | 611 | 3.67 | 2.27 | 2.92 | 2.38 | 1.72 | 2.95 | 2.15 | .69 | AMP |
| | | | | 148.25 | 324.42 | 334.78 | 58.76 | 258.63 | 66.77 | 79.82 | 52.95 | PHASE |
| 572 | -9.36 | 12.19 | 611 | 2.81 | 2.18 | 3.39 | 3.13 | 1.49 | .58 | 1.21 | 1.87 | AMP |
| | | | | 149.85 | 325.89 | 324.11 | 51.12 | 262.64 | 348.83 | 117.16 | 85.18 | PHASE |
| 573 | -8.16 | 13.31 | 61# | .51 | 2.26 | 3.92 | 3.66 | 1.53 | 1.61 | .88 | 1.85 | AMP |
| | | | | 191.17 | 333.12 | 326.88 | 59.62 | 278.18 | 389.36 | 178.16 | 111.48 | PHASE |
| 574 | -6.38 | 16.88 | 688 | 2.24 | 2.65 | 4.88 | 4.44 | 2.88 | 3.72 | 1.49 | .97 | AMP |
| | | | | 321.79 | 333.77 | 316.82 | 58.36 | 268.97 | 319.82 | 266.84 | 117.68 | PHASE |
| 575 | -4.88 | 21.86 | 611 | 5.29 | 3.21 | 5.83 | 5.26 | 2.64 | 3.79 | .73 | 1.15 | AMP |
| | | | | 321.93 | 329.32 | 386.68 | 39.89 | 249.92 | 385.87 | 262.45 | 112.21 | PHASE |
| 576 | -3.78 | 23.84 | 611 | 8.81 | 3.87 | 6.79 | 5.64 | 3.88 | 3.83 | 1.24 | .84 | AMP |
| | | | | 324.64 | 323.87 | 296.88 | 25.75 | 238.88 | 331.15 | 347.98 | 88.33 | PHASE |
| 577 | -.84 | 25.18 | 61# | 8.18 | 2.66 | 9.11 | 4.47 | 6.76 | 4.14 | 2.15 | 1.47 | AMP |
| | | | | 358.85 | 239.78 | 257.56 | 339.63 | 238.99 | 6.23 | 67.86 | 39.24 | PHASE |

TABLE VIII.- Continued

(c) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | 1.88 | 7.27 | 618 | 3.32 | 2.78 | .16 | 1.29 | 1.87 | .51 | .76 | .47 AMP |
| | | | | 289.28 | 112.63 | 268.29 | 327.99 | 349.98 | 148.39 | 48.84 | 258.65 PHASE |
| 528 | -7.74 | 6.58 | 618 | 3.83 | 2.49 | .24 | 1.23 | .99 | .66 | .49 | AMP |
| | | | | 384.63 | 121.65 | 299.77 | 334.72 | 359.34 | 163.18 | 34.12 | 382.88 PHASE |
| 521 | -2.39 | 6.52 | 618 | 2.87 | 2.22 | .26 | 1.14 | .89 | .52 | .73 | .48 AMP |
| | | | | 318.45 | 128.82 | 294.72 | 329.86 | 349.31 | 155.47 | 9.89 | 299.57 PHASE |
| 522 | -4.12 | 6.16 | 611 | 2.98 | 1.95 | .28 | 1.85 | .84 | .48 | .75 | .58 AMP |
| | | | | 337.12 | 133.24 | 289.18 | 326.32 | 355.55 | 171.34 | 17.97 | 335.78 PHASE |
| 523 | -6.84 | 6.35 | 618 | 3.38 | 1.71 | .28 | .97 | .79 | .23 | .75 | .67 AMP |
| | | | | 351.87 | 137.61 | 252.88 | 384.35 | 334.75 | 118.88 | 356.47 | 322.78 PHASE |
| 524 | -7.78 | 7.33 | 689 | 4.84 | 1.58 | .26 | 1.84 | .81 | .15 | .81 | .85 AMP |
| | | | | 3.27 | 158.75 | 268.85 | 295.99 | 326.52 | 12.23 | 352.78 | 311.94 PHASE |
| 525 | -8.47 | 7.33 | 618 | 4.41 | 1.54 | .22 | 1.89 | .81 | .28 | .78 | .93 AMP |
| | | | | 6.36 | 152.83 | 243.22 | 298.42 | 322.81 | 7.65 | 358.92 | 389.64 PHASE |
| 526 | 1.79 | 7.53 | 618 | 3.72 | 3.27 | .22 | 1.86 | .97 | .58 | .57 | .54 AMP |
| | | | | 289.79 | 115.46 | 292.82 | 343.74 | 8.48 | 159.84 | 71.54 | 313.22 PHASE |
| 527 | -1.25 | 7.88 | 618 | 3.27 | 2.93 | .47 | .98 | .84 | .29 | .67 | .67 AMP |
| | | | | 387.56 | 128.27 | 318.98 | 345.18 | 5.17 | 164.56 | 54.72 | 318.89 PHASE |
| 528 | -2.13 | 6.88 | 618 | 3.12 | 2.52 | .54 | .87 | .74 | .23 | .58 | .62 AMP |
| | | | | 323.99 | 127.16 | 386.36 | 346.26 | 359.38 | 281.86 | 42.19 | 337.91 PHASE |
| 529 | -3.85 | 6.22 | 618 | 3.25 | 2.28 | .55 | .82 | .76 | .16 | .66 | .48 AMP |
| | | | | 336.25 | 134.58 | 382.55 | 335.77 | 345.82 | 245.52 | 37.89 | 351.38 PHASE |
| 538 | -5.71 | 5.76 | 618 | 3.58 | 1.91 | .55 | .88 | .85 | .12 | .67 | .44 AMP |
| | | | | 349.58 | 139.82 | 298.58 | 316.66 | 328.57 | 334.36 | 38.71 | 318.39 PHASE |
| 531 | -7.53 | 6.93 | 689 | 4.25 | 1.65 | .45 | .79 | .88 | .85 | .88 | .65 AMP |
| | | | | 5.88 | 155.78 | 295.43 | 385.71 | 318.18 | 48.57 | 51.58 | 291.28 PHASE |
| 532 | -7.84 | 6.67 | 688 | 4.31 | 1.69 | .42 | .83 | .78 | .18 | .32 | .51 AMP |
| | | | | 3.18 | 158.15 | 284.88 | 382.68 | 323.37 | 6.52 | 41.53 | 293.25 PHASE |
| 533 | .37 | 5.57 | 618 | 2.91 | 2.41 | .12 | 1.89 | .77 | .55 | .45 | .33 AMP |
| | | | | 286.38 | 114.38 | 26.98 | 333.61 | 6.51 | 152.79 | 57.33 | 254.22 PHASE |
| 534 | -1.35 | 5.38 | 611 | 2.48 | 2.13 | .86 | 1.85 | .63 | .55 | .52 | .34 AMP |
| | | | | 381.81 | 114.47 | 323.87 | 317.26 | 345.22 | 146.98 | 28.66 | 235.53 PHASE |
| 535 | -2.97 | 5.11 | 618 | 2.38 | 1.89 | .86 | .99 | .66 | .56 | .53 | .34 AMP |
| | | | | 328.77 | 121.78 | 179.75 | 314.51 | 342.23 | 138.63 | 1.78 | 235.43 PHASE |
| 536 | -4.94 | 5.76 | 618 | 2.69 | 1.77 | .13 | .94 | .65 | .55 | .51 | .39 AMP |
| | | | | 351.48 | 141.27 | 238.11 | 322.88 | 7.93 | 158.17 | 38.22 | 387.13 PHASE |
| 537 | -6.32 | 5.89 | 618 | 3.86 | 1.63 | .22 | .83 | .69 | .53 | .46 | .27 AMP |
| | | | | 359.81 | 147.41 | 177.66 | 382.81 | 357.89 | 134.55 | .41 | 263.88 PHASE |
| 538 | -8.89 | 7.86 | 618 | 3.93 | 1.69 | .36 | .88 | .64 | .59 | .48 | .26 AMP |
| | | | | 14.78 | 162.25 | 182.79 | 383.35 | 23.86 | 147.88 | 13.32 | 288.58 PHASE |
| 539 | -9.65 | 7.26 | 618 | 4.95 | 1.79 | .46 | .75 | .69 | .58 | .69 | .16 AMP |
| | | | | 28.56 | 166.22 | 168.18 | 286.92 | 23.53 | 123.93 | .43 | 225.98 PHASE |
| 548 | -18.55 | 7.85 | 618 | 5.65 | 1.72 | .46 | .48 | .68 | .45 | .75 | .89 AMP |
| | | | | 19.75 | 166.82 | 122.35 | 276.17 | 18.72 | 183.34 | 346.99 | 151.27 PHASE |
| 541 | -11.99 | 8.84 | 618 | 6.92 | .97 | .95 | .28 | .63 | .87 | 1.16 | .17 AMP |
| | | | | 13.19 | 168.64 | 71.28 | 272.27 | 12.92 | 66.88 | 328.41 | 254.73 PHASE |
| 578 | -4.88 | 4.34 | 612 | 2.35 | 1.69 | .18 | .79 | .61 | .34 | .25 | .18 AMP |
| | | | | 284.83 | 189.98 | 28.32 | 318.71 | 348.59 | 141.39 | 18.58 | 152.88 PHASE |
| 571 | -2.89 | 3.99 | 611 | 1.95 | 1.41 | .83 | .81 | .68 | .39 | .24 | .14 AMP |
| | | | | 387.66 | 121.13 | 194.24 | 314.85 | 343.67 | 148.64 | 354.65 | 186.25 PHASE |
| 572 | -3.81 | 4.87 | 611 | 1.96 | 1.29 | .12 | .76 | .65 | .36 | .24 | .89 AMP |
| | | | | 332.31 | 134.94 | 182.38 | 381.61 | 339.47 | 132.85 | 341.29 | 198.41 PHASE |
| 573 | -5.37 | 4.71 | 618 | 2.29 | 1.23 | .28 | .74 | .68 | .35 | .28 | .82 AMP |
| | | | | 355.85 | 156.86 | 188.28 | 386.38 | 354.72 | 145.77 | 349.36 | 239.85 PHASE |
| 574 | -7.23 | 5.24 | 688 | 3.89 | 1.36 | .33 | .74 | .65 | .42 | .27 | .83 AMP |
| | | | | 11.25 | 169.32 | 178.88 | 295.14 | 353.92 | 137.59 | 318.75 | 146.68 PHASE |
| 575 | -9.13 | 6.47 | 611 | 4.12 | 1.68 | .54 | .73 | .66 | .47 | .37 | .11 AMP |
| | | | | 19.58 | 174.18 | 172.83 | 281.48 | 353.42 | 129.98 | 288.74 | 13.58 PHASE |
| 576 | -18.67 | 7.26 | 611 | 5.27 | 1.92 | .57 | .63 | .68 | .48 | .48 | .17 AMP |
| | | | | 24.12 | 175.25 | 162.81 | 267.86 | 356.91 | 111.91 | 269.82 | 347.19 PHASE |
| 577 | -12.94 | 8.63 | 618 | 7.31 | 1.13 | .87 | .19 | .63 | .82 | .93 | .51 AMP |
| | | | | 16.66 | 188.81 | 67.62 | 328.63 | 6.94 | 118.26 | 287.39 | 318.18 PHASE |

TABLE VIII.- Continued

(c) Concluded

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 519 | -3.78 | 18.49 | 61# | 4.2# | 2.19 | 1.81 | 2.63 | 1.6# | .25 | .61 | .77 AMP |
| | | | | 158.49 | 319.46 | 286.97 | 127.52 | 289.35 | 234.97 | 72.55 | 274.51 PHASE |
| 52# | -1.88 | 9.46 | 61# | 4.4# | 1.7# | .92 | 2.28 | 1.58 | .48 | .8# | .61 AMP |
| | | | | 171.15 | 322.31 | 284.51 | 138.79 | 213.81 | 355.18 | 97.9# | 296.64 PHASE |
| 521 | -.86 | 18.48 | 61# | 4.44 | 1.5# | .98 | 2.8# | 1.77 | .87 | .9# | .49 AMP |
| | | | | 184.19 | 312.13 | 187.86 | 115.51 | 289.53 | 17.16 | 98.52 | 284.12 PHASE |
| 522 | 1.93 | 12.15 | 611 | 5.63 | 1.44 | .74 | 2.26 | 1.66 | .76 | .98 | .39 AMP |
| | | | | 195.12 | 314.95 | 187.22 | 128.41 | 222.23 | 57.98 | 113.45 | 18.72 PHASE |
| 523 | 4.44 | 14.53 | 61# | 7.65 | 1.71 | .52 | 2.37 | 1.47 | .55 | .92 | .97 AMP |
| | | | | 195.29 | 382.86 | 134.25 | 185.83 | 192.29 | 63.31 | 185.82 | 18.31 PHASE |
| 524 | 6.85 | 17.87 | 6#9 | 18.21 | 2.87 | .88 | 2.55 | 1.48 | .73 | .97 | 1.74 AMP |
| | | | | 196.92 | 381.89 | 97.38 | 187.47 | 161.7# | 111.51 | 116.76 | 7.25 PHASE |
| 525 | 8.84 | 19.3# | 61# | 11.33 | 2.36 | 1.87 | 2.56 | 1.77 | .83 | 1.83 | 2.19 AMP |
| | | | | 198.86 | 295.1# | 79.45 | 183.98 | 168.8# | 127.33 | 118.96 | 12.57 PHASE |
| 526 | -4.54 | 8.17 | 61# | 3.18 | 1.99 | .82 | 1.77 | 1.84 | .13 | .82 | .57 AMP |
| | | | | 163.99 | 313.12 | 238.44 | 148.83 | 218.66 | 258.46 | 78.81 | 26.58 PHASE |
| 527 | -2.54 | 9.7# | 61# | 4.19 | 1.88 | .64 | 1.65 | 1.31 | .89 | 1.24 | .82 AMP |
| | | | | 179.47 | 315.9# | 286.23 | 151.18 | 211.88 | 129.7# | 96.31 | 9.22 PHASE |
| 528 | -.45 | 18.72 | 61# | 5.63 | 2.85 | .47 | 1.41 | 1.27 | .48 | 1.83 | .73 AMP |
| | | | | 187.57 | 318.17 | 217.49 | 149.29 | 199.91 | 85.11 | 128.97 | 17.84 PHASE |
| 529 | 1.76 | 12.63 | 61# | 7.17 | 2.17 | .17 | 1.49 | 1.26 | .65 | .66 | 1.15 AMP |
| | | | | 192.81 | 322.12 | 195.78 | 141.31 | 186.28 | 122.51 | 138.81 | 9.91 PHASE |
| 53# | 4.44 | 15.72 | 61# | 9.38 | 2.62 | .35 | 1.62 | 1.7# | .67 | .61 | 1.64 AMP |
| | | | | 193.64 | 316.83 | 98.21 | 124.83 | 159.76 | 135.22 | 138.87 | 353.44 PHASE |
| 531 | 8.8# | 21.68 | 6#9 | 13.89 | 3.62 | .67 | 1.93 | 2.2# | .26 | 1.17 | 1.94 AMP |
| | | | | 197.72 | 316.5# | 79.8# | 132.47 | 153.66 | 15.4# | 95.73 | 18.74 PHASE |
| 532 | 8.2# | 28.73 | 6#8 | 13.19 | 3.1# | .94 | 1.98 | 2.2# | .32 | .97 | 1.87 AMP |
| | | | | 198.31 | 312.1# | 58.87 | 118.89 | 154.88 | 148.92 | 98.81 | 15.14 PHASE |
| 533 | -1.96 | 6.84 | 61# | 2.39 | 1.32 | 1.85 | 1.68 | 1.52 | .51 | .57 | .68 AMP |
| | | | | 157.7# | 384.93 | 185.85 | 131.2# | 218.12 | 298.75 | 71.58 | 275.25 PHASE |
| 534 | -.36 | 6.96 | 611 | 3.82 | 1.16 | .97 | 1.68 | 1.54 | .43 | .39 | .58 AMP |
| | | | | 173.43 | 382.24 | 175.45 | 182.87 | 288.58 | 348.25 | 78.52 | 273.17 PHASE |
| 535 | 1.27 | 8.1# | 61# | 3.95 | 1.81 | .81 | 1.74 | 2.82 | .68 | .54 | .68 AMP |
| | | | | 185.46 | 387.47 | 155.59 | 98.82 | 287.98 | 357.36 | 83.83 | 269.18 PHASE |
| 536 | 3.22 | 18.13 | 61# | 5.33 | 1.12 | .87 | 1.95 | 1.73 | .52 | .68 | .69 AMP |
| | | | | 193.57 | 311.34 | 163.32 | 121.66 | 236.56 | 29.75 | 131.97 | 331.91 PHASE |
| 537 | 4.83 | 11.71 | 61# | 6.54 | .8# | .59 | 1.92 | 1.98 | .69 | .92 | .71 AMP |
| | | | | 282.82 | 338.41 | 121.51 | 182.9# | 216.43 | 11.51 | 89.59 | 279.44 PHASE |
| 538 | 6.98 | 14.65 | 61# | 8.67 | 1.84 | .99 | 1.96 | 1.91 | .79 | .91 | 1.84 AMP |
| | | | | 288.19 | 323.83 | 84.99 | 116.59 | 234.85 | 31.83 | 118.37 | 318.82 PHASE |
| 539 | 9.19 | 17.67 | 61# | 11.58 | 1.58 | 1.69 | 1.86 | 1.88 | .62 | .88 | 1.24 AMP |
| | | | | 285.97 | 382.51 | 64.92 | 188.91 | 222.7# | 51.19 | 135.72 | 384.23 PHASE |
| 54# | 18.46 | 19.62 | 61# | 13.24 | 1.84 | 2.12 | 1.76 | 1.98 | .49 | .98 | 1.85 AMP |
| | | | | 285.67 | 286.61 | 54.88 | 181.59 | 286.54 | 85.1# | 135.38 | 285.87 PHASE |
| 541 | 12.62 | 25.81 | 61# | 16.83 | 2.68 | 2.98 | 1.7# | 1.93 | 1.12 | 1.39 | .78 AMP |
| | | | | 288.99 | 263.66 | 58.82 | 182.93 | 198.8# | 85.28 | 117.36 | 382.89 PHASE |
| 57# | -.46 | 4.65 | 612 | 1.5# | .72 | 1.15 | 1.19 | 1.3# | .22 | .48 | .24 AMP |
| | | | | 164.35 | 382.46 | 163.59 | 128.81 | 182.52 | 295.9# | 56.24 | 242.85 PHASE |
| 571 | .99 | 5.61 | 611 | 2.17 | .55 | .98 | 1.25 | 1.62 | .52 | .46 | .34 AMP |
| | | | | 185.62 | 322.67 | 168.73 | 185.82 | 187.75 | 341.15 | 68.89 | 242.78 PHASE |
| 572 | 2.64 | 6.96 | 611 | 3.17 | .48 | .87 | 1.49 | 1.64 | .46 | .44 | .29 AMP |
| | | | | 197.76 | 335.74 | 158.24 | 182.89 | 184.91 | 342.51 | 64.65 | 244.26 PHASE |
| 573 | 4.22 | 7.98 | 61# | 4.47 | .43 | .79 | 1.53 | 1.65 | .48 | .49 | .24 AMP |
| | | | | 287.32 | 12.42 | 141.19 | 111.84 | 195.82 | 7.53 | 85.53 | 264.35 PHASE |
| 574 | 6.11 | 11.12 | 6#8 | 6.86 | .45 | .93 | 1.56 | 1.68 | .65 | .66 | .33 AMP |
| | | | | 211.73 | 26.97 | 189.65 | 189.36 | 192.94 | 14.8# | 93.88 | 239.89 PHASE |
| 575 | 8.19 | 12.86 | 611 | 8.16 | .48 | 1.34 | 1.55 | 1.63 | .83 | .71 | .35 AMP |
| | | | | 212.54 | 13.91 | 77.42 | 183.6# | 198.22 | 2.69 | 81.88 | 192.2# PHASE |
| 576 | 18.85 | 16.6# | 611 | 18.83 | .45 | 2.17 | 1.63 | 1.95 | .89 | .71 | .53 AMP |
| | | | | 289.54 | 387.54 | 55.47 | 98.37 | 189.42 | 347.53 | 85.51 | 137.67 PHASE |
| 577 | 12.99 | 23.59 | 61# | 16.57 | 1.33 | 3.85 | .91 | 1.39 | .94 | 1.58 | .92 AMP |
| | | | | 282.24 | 226.47 | 53.87 | 185.58 | 173.88 | 41.4# | 185.68 | 87.47 PHASE |



TABLE VIII.- Continued

(d) $\mu = 0.30$; $M_T = 0.68$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CQ/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 578 | -0.8 | 3.8 | 8.1 | .02684 | -.00318 | .00275 |
| 579 | -1.1 | 4.7 | 10.0 | .03896 | -.00534 | .00365 |
| 580 | -1.6 | 5.9 | 12.2 | .05236 | -.00810 | .00477 |
| 581 | -1.9 | 6.6 | 14.0 | .06684 | -.01054 | .00588 |
| 582 | -2.9 | 7.9 | 16.1 | .07839 | -.01334 | .00730 |
| 583 | -3.7 | 8.7 | 18.1 | .09135 | -.01597 | .00878 |
| 584 | -0.6 | 3.6 | 6.2 | .03136 | -.00134 | .00228 |
| 585 | -1.2 | 4.6 | 8.2 | .04443 | -.00295 | .00290 |
| 586 | -1.3 | 5.5 | 10.0 | .05770 | -.00436 | .00354 |
| 587 | -2.2 | 6.8 | 12.3 | .07272 | -.00640 | .00465 |
| 588 | -2.9 | 7.6 | 14.0 | .08368 | -.00777 | .00553 |
| 589 | -3.7 | 8.9 | 16.1 | .09583 | -.00988 | .00690 |
| 590 | -3.9 | 9.3 | 17.1 | .10219 | -.01043 | .00774 |
| 591 | -0.4 | 3.4 | 4.3 | .03686 | .00108 | .00157 |
| 592 | -0.8 | 4.3 | 6.3 | .05210 | .00101 | .00185 |
| 593 | -1.8 | 5.3 | 8.1 | .06299 | .00037 | .00239 |
| 594 | -2.3 | 6.3 | 10.0 | .07618 | -.00015 | .00299 |
| 595 | -2.5 | 7.3 | 12.2 | .08983 | -.00031 | .00377 |
| 596 | -3.3 | 8.5 | 14.1 | .10243 | -.00132 | .00497 |

TABLE VIII.- Continued

(d) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | 45.71 | 14.21 | 641 | 6.99 | 3.98 | 4.29 | 2.26 | 4.52 | 1.28 | 1.18 | 1.24 AMP |
| | | | | 152.96 | 341.87 | 19.72 | 323.68 | 56.38 | 298.75 | 211.15 | 4.71 PHASE |
| 579 | 47.23 | 15.42 | 648 | 7.18 | 4.31 | 4.42 | 2.52 | 4.58 | 1.45 | 1.16 | 1.88 AMP |
| | | | | 158.69 | 348.78 | 21.28 | 327.46 | 59.56 | 385.12 | 216.57 | 18.43 PHASE |
| 580 | 49.18 | 15.89 | 648 | 7.89 | 4.58 | 4.34 | 2.43 | 4.53 | 1.48 | 1.13 | 1.12 AMP |
| | | | | 144.19 | 351.84 | 14.43 | 323.48 | 54.88 | 383.87 | 286.24 | 6.78 PHASE |
| 581 | 51.18 | 17.89 | 641 | 6.75 | 4.89 | 4.17 | 2.58 | 4.64 | 1.34 | 1.17 | 1.28 AMP |
| | | | | 137.17 | 357.41 | 8.26 | 314.82 | 59.18 | 381.96 | 199.35 | 352.16 PHASE |
| 582 | 52.88 | 16.98 | 639 | 6.54 | 5.24 | 3.91 | 2.49 | 4.65 | 1.21 | 1.82 | 1.18 AMP |
| | | | | 118.92 | 358.71 | 341.56 | 287.78 | 33.73 | 262.62 | 165.48 | 389.21 PHASE |
| 583 | 54.62 | 18.86 | 648 | 6.59 | 5.92 | 3.46 | 2.54 | 4.76 | 1.28 | 1.14 | 1.48 AMP |
| | | | | 188.88 | 355.93 | 327.43 | 277.13 | 48.76 | 251.17 | 155.77 | 385.12 PHASE |
| 584 | 44.83 | 18.13 | 639 | 7.99 | 5.84 | 5.78 | 3.88 | 5.92 | 2.84 | 2.26 | 2.88 AMP |
| | | | | 152.82 | 329.73 | 31.72 | 321.55 | 73.59 | 319.23 | 223.88 | 38.93 PHASE |
| 585 | 46.58 | 17.82 | 648 | 7.65 | 4.83 | 5.58 | 3.32 | 5.99 | 2.88 | 2.83 | 2.13 AMP |
| | | | | 148.34 | 332.63 | 27.67 | 313.78 | 72.31 | 312.82 | 222.85 | 37.78 PHASE |
| 586 | 48.26 | 17.25 | 648 | 7.63 | 4.83 | 5.72 | 3.89 | 5.68 | 2.87 | 2.17 | 1.84 AMP |
| | | | | 146.18 | 335.92 | 24.36 | 388.35 | 72.17 | 389.95 | 218.18 | 37.55 PHASE |
| 587 | 58.22 | 17.25 | 648 | 7.85 | 4.93 | 4.99 | 2.89 | 5.57 | 1.87 | 2.18 | 2.84 AMP |
| | | | | 148.45 | 344.98 | 22.88 | 299.75 | 81.68 | 311.88 | 228.95 | 42.18 PHASE |
| 588 | 51.69 | 17.37 | 648 | 6.57 | 5.85 | 4.78 | 2.73 | 5.61 | 1.78 | 2.13 | 2.86 AMP |
| | | | | 138.22 | 347.64 | 11.19 | 287.73 | 73.48 | 296.11 | 287.86 | 38.76 PHASE |
| 589 | 53.38 | 17.36 | 648 | 6.38 | 5.47 | 4.16 | 2.72 | 5.94 | 1.46 | 2.87 | 2.26 AMP |
| | | | | 189.94 | 348.44 | 345.65 | 258.49 | 68.15 | 264.33 | 169.93 | 355.77 PHASE |
| 590 | 54.11 | 18.67 | 648 | 6.48 | 6.84 | 4.88 | 2.92 | 6.19 | 1.35 | 2.43 | 2.88 AMP |
| | | | | 95.18 | 353.53 | 336.46 | 251.64 | 69.34 | 254.48 | 164.83 | 359.41 PHASE |
| 591 | 44.32 | 22.23 | 641 | 9.83 | 6.41 | 7.18 | 4.49 | 5.91 | 2.78 | 3.88 | 2.89 AMP |
| | | | | 148.73 | 314.81 | 42.84 | 324.83 | 63.85 | 297.51 | 289.27 | 29.58 PHASE |
| 592 | 45.93 | 28.99 | 648 | 8.58 | 5.93 | 6.53 | 4.19 | 5.91 | 2.58 | 2.95 | 1.96 AMP |
| | | | | 158.68 | 321.58 | 47.24 | 332.62 | 73.52 | 387.11 | 232.52 | 57.63 PHASE |
| 593 | 47.41 | 19.78 | 639 | 8.36 | 5.59 | 6.58 | 3.59 | 5.79 | 2.52 | 2.61 | 1.33 AMP |
| | | | | 149.92 | 338.83 | 53.44 | 344.51 | 86.71 | 326.56 | 256.76 | 98.46 PHASE |
| 594 | 49.82 | 18.89 | 648 | 7.85 | 5.86 | 5.23 | 2.99 | 5.24 | 2.12 | 2.31 | 91 AMP |
| | | | | 143.79 | 332.73 | 44.83 | 336.15 | 78.54 | 318.53 | 258.62 | 115.77 PHASE |
| 595 | 58.44 | 19.83 | 648 | 7.39 | 5.27 | 5.73 | 2.89 | 4.88 | 2.89 | 2.18 | 1.71 AMP |
| | | | | 132.81 | 336.33 | 38.87 | 319.96 | 65.52 | 288.52 | 231.17 | 151.84 PHASE |
| 596 | 51.79 | 28.96 | 639 | 7.88 | 5.54 | 4.91 | 2.88 | 2.98 | 1.77 | 2.45 | 2.65 AMP |
| | | | | 128.96 | 353.86 | 29.44 | 318.11 | 87.89 | 288.81 | 246.71 | 182.29 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | 62.48 | 25.16 | 641 | 18.41 | 5.57 | 6.28 | 4.87 | 2.79 | 3.68 | 1.81 | .74 AMP |
| | | | | 299.73 | 134.14 | 242.76 | 26.35 | 326.34 | 345.16 | 38.85 | 96.96 PHASE |
| 579 | 63.25 | 35.21 | 648 | 19.82 | 7.93 | 6.95 | 6.18 | 3.75 | 1.95 | 1.84 | .69 AMP |
| | | | | 328.34 | 149.48 | 235.96 | 36.58 | 352.28 | 73.85 | 65.33 | 122.21 PHASE |
| 580 | 64.84 | 54.53 | 648 | 38.64 | 9.35 | 14.69 | 7.75 | 2.49 | 2.56 | 1.13 | .74 AMP |
| | | | | 339.98 | 156.26 | 232.56 | 37.82 | 336.32 | 287.35 | 68.91 | 131.46 PHASE |
| 581 | 64.29 | 78.94 | 641 | 45.93 | 18.88 | 19.84 | 9.82 | 2.35 | 5.55 | .88 | .74 AMP |
| | | | | 349.37 | 162.84 | 235.13 | 36.16 | 388.65 | 248.79 | 59.48 | 143.85 PHASE |
| 582 | 64.25 | 95.18 | 639 | 68.81 | 18.66 | 25.89 | 9.22 | 3.51 | 6.26 | 1.29 | .76 AMP |
| | | | | 345.43 | 167.25 | 228.55 | 13.78 | 235.58 | 234.28 | 19.89 | 124.78 PHASE |
| 583 | 64.18 | 115.88 | 648 | 79.83 | 18.54 | 28.97 | 9.98 | 4.92 | 5.86 | 2.19 | .82 AMP |
| | | | | 349.79 | 186.16 | 224.81 | 8.25 | 227.16 | 268.42 | 21.51 | 126.55 PHASE |
| 584 | 68.15 | 38.99 | 639 | 13.87 | 8.43 | 8.35 | 3.56 | 2.35 | 2.64 | 2.56 | 1.81 AMP |
| | | | | 298.15 | 121.44 | 253.56 | 32.43 | 2.84 | 333.33 | 43.28 | 181.58 PHASE |
| 585 | 68.88 | 39.37 | 648 | 21.83 | 11.82 | 18.61 | 5.32 | 3.64 | .77 | 2.76 | 1.83 AMP |
| | | | | 311.83 | 133.71 | 248.75 | 18.87 | 341.39 | 15.84 | 46.89 | 131.83 PHASE |
| 586 | 68.41 | 55.98 | 648 | 32.19 | 13.61 | 14.77 | 7.29 | 3.86 | 3.91 | 1.49 | .98 AMP |
| | | | | 327.29 | 138.65 | 237.51 | 29.24 | 348.38 | 186.86 | 58.69 | 126.85 PHASE |
| 587 | 59.88 | 72.34 | 648 | 45.26 | 14.12 | 19.93 | 7.86 | 4.14 | 6.56 | 4.9 | .99 AMP |
| | | | | 336.49 | 149.35 | 242.84 | 35.55 | 331.68 | 242.21 | 52.96 | 143.31 PHASE |
| 588 | 58.96 | 86.25 | 648 | 56.71 | 13.71 | 23.65 | 8.25 | 5.48 | 7.54 | .28 | .84 AMP |
| | | | | 339.77 | 152.22 | 239.97 | 38.91 | 321.38 | 255.81 | 383.89 | 161.54 PHASE |
| 589 | 58.48 | 182.94 | 648 | 72.77 | 11.69 | 27.68 | 8.97 | 6.62 | 6.88 | 1.83 | .65 AMP |
| | | | | 348.82 | 154.42 | 238.63 | 7.89 | 294.36 | 252.95 | 259.96 | 162.29 PHASE |
| 590 | 58.56 | 117.51 | 648 | 85.15 | 11.91 | 38.51 | 8.42 | 8.15 | 8.17 | 1.55 | .38 AMP |
| | | | | 347.17 | 161.29 | 233.81 | 359.51 | 284.55 | 287.53 | 387.65 | 177.97 PHASE |
| 591 | 59.85 | 36.66 | 641 | 18.48 | 9.41 | 8.66 | 2.44 | 4.21 | 2.47 | 2.56 | 1.81 AMP |
| | | | | 281.22 | 127.88 | 256.47 | 58.71 | 284.75 | 288.75 | 35.98 | 93.82 PHASE |
| 592 | 57.58 | 48.35 | 648 | 25.85 | 13.51 | 11.28 | 4.14 | 6.58 | 3.16 | 2.61 | 1.86 AMP |
| | | | | 385.58 | 148.63 | 253.78 | 31.88 | 298.85 | 382.93 | 39.46 | 117.56 PHASE |
| 593 | 56.38 | 56.38 | 639 | 32.28 | 15.16 | 13.58 | 5.27 | 6.54 | 2.27 | 2.62 | .45 AMP |
| | | | | 317.41 | 153.92 | 268.89 | 53.83 | 318.99 | 321.11 | 78.13 | 131.19 PHASE |
| 594 | 55.81 | 69.83 | 648 | 43.38 | 15.87 | 17.14 | 6.61 | 6.33 | 4.66 | 2.18 | .58 AMP |
| | | | | 327.56 | 151.14 | 253.93 | 51.28 | 384.32 | 389.86 | 31.61 | 199.63 PHASE |
| 595 | 52.92 | 79.49 | 648 | 58.14 | 16.37 | 21.46 | 7.51 | 6.18 | 6.16 | 3.27 | .98 AMP |
| | | | | 335.85 | 148.88 | 249.47 | 35.43 | 383.72 | 384.19 | 319.29 | 257.53 PHASE |
| 596 | 52.87 | 181.36 | 639 | 72.89 | 16.81 | 25.21 | 8.14 | 5.37 | 8.48 | 6.87 | .85 AMP |
| | | | | 347.78 | 168.23 | 261.62 | 37.31 | 329.21 | 348.38 | 344.49 | 354.82 PHASE |

TABLE VIII.- Continued

(d) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | - .86 | 6.81 | 641 | 2.76 | 1.27 | .46 | 1.24 | 1.19 | .65 | .54 | .18 AMP |
| | | | | 317.68 | 182.86 | 331.72 | 284.89 | 358.76 | 132.24 | 287.51 | 78.43 PHASE |
| 579 | -2.72 | 6.32 | 648 | 2.96 | 1.87 | .41 | 1.44 | 1.16 | .54 | .49 | .89 AMP |
| | | | | 338.11 | 114.45 | 388.58 | 284.84 | 9.22 | 151.82 | 295.87 | 71.66 PHASE |
| 588 | -4.96 | 6.61 | 648 | 3.65 | .84 | .57 | 1.53 | 1.15 | .52 | .65 | .15 AMP |
| | | | | 354.92 | 121.49 | 283.17 | 282.71 | 13.81 | 153.46 | 281.61 | 32.66 PHASE |
| 581 | -7.34 | 8.11 | 641 | 4.82 | .83 | .85 | 1.62 | 1.18 | .72 | .97 | .24 AMP |
| | | | | 7.71 | 126.15 | 273.54 | 283.71 | 23.76 | 162.61 | 266.32 | 355.93 PHASE |
| 582 | -9.51 | 9.25 | 639 | 5.98 | .76 | 1.18 | 1.57 | 1.85 | .85 | 1.89 | .25 AMP |
| | | | | 9.39 | 123.21 | 248.62 | 268.88 | 1.84 | 139.55 | 234.72 | 325.89 PHASE |
| 583 | -11.98 | 12.53 | 648 | 7.97 | 1.87 | 1.77 | 1.58 | 1.24 | .98 | 1.32 | .44 AMP |
| | | | | 14.78 | 116.36 | 244.89 | 264.48 | 11.88 | 148.74 | 248.42 | 318.19 PHASE |
| 584 | .26 | 7.36 | 639 | 3.29 | 2.89 | .38 | 1.78 | 1.35 | .62 | .75 | .32 AMP |
| | | | | 316.94 | 118.38 | 355.37 | 291.71 | 3.58 | 138.66 | 389.67 | 91.97 PHASE |
| 585 | -1.82 | 7.97 | 648 | 3.52 | 1.78 | .25 | 1.78 | 1.55 | .77 | .86 | .28 AMP |
| | | | | 334.54 | 111.47 | 319.58 | 286.44 | 16.28 | 145.78 | 385.49 | 99.79 PHASE |
| 586 | -4.88 | 8.48 | 648 | 4.21 | 1.54 | .33 | 1.95 | 1.51 | .58 | .92 | .19 AMP |
| | | | | 349.31 | 113.42 | 279.17 | 282.97 | 38.33 | 156.87 | 291.58 | 45.95 PHASE |
| 587 | -6.65 | 9.28 | 648 | 5.43 | 1.43 | .72 | 1.91 | 1.54 | .74 | 1.14 | .26 AMP |
| | | | | 2.87 | 118.63 | 266.78 | 286.92 | 48.79 | 162.65 | 288.89 | 59.48 PHASE |
| 588 | -8.81 | 11.36 | 648 | 6.81 | 1.61 | 1.28 | 1.86 | 1.53 | .72 | 1.28 | .38 AMP |
| | | | | 8.74 | 118.89 | 259.53 | 284.38 | 44.76 | 158.87 | 277.68 | 69.94 PHASE |
| 589 | -11.43 | 14.14 | 648 | 9.86 | 2.15 | 1.81 | 1.78 | 1.62 | .31 | 1.15 | .51 AMP |
| | | | | 18.48 | 189.79 | 245.17 | 278.26 | 19.95 | 128.39 | 266.81 | 39.95 PHASE |
| 598 | -13.41 | 17.36 | 648 | 11.59 | 2.98 | 2.24 | 1.78 | 1.74 | .36 | 1.58 | .43 AMP |
| | | | | 11.32 | 188.92 | 243.86 | 274.81 | 18.76 | 281.93 | 274.28 | 5.87 PHASE |
| 591 | 1.16 | 8.78 | 641 | 4.82 | 2.59 | .37 | 2.45 | 1.38 | .42 | .82 | .16 AMP |
| | | | | 328.85 | 118.45 | 25.69 | 294.66 | 356.46 | 128.37 | 288.28 | 57.63 PHASE |
| 592 | -1.28 | 8.83 | 648 | 4.33 | 2.25 | .38 | 2.18 | 1.44 | .65 | 1.26 | .21 AMP |
| | | | | 338.46 | 121.31 | 358.38 | 383.88 | 14.56 | 182.33 | 312.86 | 65.52 PHASE |
| 593 | -3.21 | 9.37 | 639 | 4.91 | 2.11 | .35 | 2.15 | 1.27 | .55 | 1.35 | .27 AMP |
| | | | | 351.86 | 129.85 | 338.42 | 312.37 | 31.82 | 214.31 | 336.65 | 34.81 PHASE |
| 594 | -5.79 | 18.43 | 648 | 6.13 | 2.21 | .53 | 2.15 | 1.11 | .88 | 1.39 | .14 AMP |
| | | | | .78 | 123.92 | 292.17 | 383.22 | 18.73 | 213.83 | 328.47 | 298.44 PHASE |
| 595 | -8.85 | 13.32 | 648 | 8.48 | 2.65 | 1.89 | 2.55 | 1.34 | .32 | 1.34 | .51 AMP |
| | | | | 5.26 | 116.28 | 272.88 | 292.38 | 351.83 | 351.75 | 319.96 | 229.64 PHASE |
| 596 | -12.27 | 16.77 | 639 | 11.51 | 3.38 | 1.83 | 2.72 | 1.96 | .93 | 1.48 | .95 AMP |
| | | | | 13.28 | 122.68 | 283.77 | 299.72 | 347.36 | 17.86 | 335.48 | 256.71 PHASE |

TABLE VIII.- Continued

(d) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|-------|--------|--------|--------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | 29.18 | 15.88 | 641 | 18.46 | 5.34 | 5.35 | 1.62 | 2.38 | .46 | .17 | .41 |
| | | | | 142.38 | 337.88 | 25.18 | 313.13 | 57.53 | 279.23 | 188.91 | 174.29 |
| 579 | 38.46 | 16.49 | 648 | 11.43 | 5.98 | 6.85 | 1.63 | 2.18 | .58 | .19 | .37 |
| | | | | 144.17 | 348.88 | 29.11 | 316.83 | 57.28 | 284.51 | 219.95 | 187.72 |
| 588 | 32.21 | 17.72 | 648 | 12.28 | 6.17 | 6.38 | 1.57 | 2.27 | .48 | .18 | .39 |
| | | | | 143.81 | 342.25 | 24.94 | 313.34 | 58.68 | 281.61 | 248.49 | 173.15 |
| 581 | 34.84 | 18.97 | 641 | 13.83 | 6.57 | 6.68 | 1.68 | 2.44 | .43 | .26 | .51 |
| | | | | 144.81 | 344.86 | 23.71 | 384.58 | 53.88 | 266.62 | 242.55 | 162.88 |
| 582 | 35.81 | 19.53 | 639 | 13.66 | 6.98 | 6.62 | 1.68 | 2.55 | .45 | .24 | .46 |
| | | | | 138.25 | 337.48 | 5.67 | 281.81 | 28.68 | 211.48 | 221.78 | 115.65 |
| 583 | 37.54 | 28.27 | 648 | 14.89 | 7.17 | 6.81 | 1.58 | 2.68 | .54 | .24 | .53 |
| | | | | 137.28 | 341.86 | 3.66 | 274.48 | 34.84 | 284.75 | 247.71 | 112.54 |
| 584 | 27.16 | 19.93 | 639 | 11.99 | 7.83 | 7.15 | 2.26 | 3.84 | .53 | .29 | .74 |
| | | | | 148.48 | 323.81 | 33.94 | 313.13 | 77.87 | 285.31 | 173.47 | 285.48 |
| 585 | 28.87 | 28.42 | 648 | 12.49 | 6.87 | 7.35 | 2.21 | 2.92 | .56 | .38 | .67 |
| | | | | 148.51 | 323.83 | 38.66 | 386.93 | 78.44 | 283.15 | 174.98 | 283.19 |
| 586 | 38.38 | 28.93 | 648 | 13.34 | 6.97 | 7.88 | 2.88 | 2.71 | .56 | .29 | .57 |
| | | | | 141.15 | 324.49 | 28.22 | 381.16 | 75.88 | 282.84 | 184.68 | 283.87 |
| 587 | 32.35 | 28.78 | 648 | 13.91 | 6.84 | 7.58 | 1.73 | 2.72 | .51 | .38 | .55 |
| | | | | 141.72 | 338.99 | 38.18 | 295.88 | 84.61 | 274.31 | 215.95 | 218.86 |
| 588 | 33.71 | 28.47 | 648 | 14.26 | 6.63 | 7.44 | 1.68 | 2.66 | .58 | .37 | .58 |
| | | | | 138.96 | 338.25 | 23.96 | 277.57 | 77.11 | 241.44 | 212.17 | 195.92 |
| 589 | 35.34 | 28.52 | 648 | 14.58 | 6.58 | 6.93 | 1.64 | 2.81 | .63 | .42 | .72 |
| | | | | 132.88 | 327.86 | 8.38 | 246.18 | 62.12 | 288.89 | 192.83 | 166.38 |
| 598 | 36.15 | 28.58 | 648 | 14.48 | 6.91 | 6.59 | 1.71 | 2.96 | .78 | .33 | .71 |
| | | | | 131.68 | 338.86 | 7.25 | 236.13 | 72.18 | 183.96 | 195.75 | 172.85 |
| 591 | 25.63 | 24.68 | 641 | 13.63 | 8.84 | 8.11 | 2.99 | 3.26 | .53 | .28 | .75 |
| | | | | 139.21 | 313.42 | 48.69 | 318.52 | 71.92 | 382.84 | 143.75 | 211.11 |
| 592 | 27.28 | 24.54 | 648 | 14.17 | 8.46 | 7.95 | 2.65 | 3.88 | .48 | .31 | .68 |
| | | | | 142.77 | 317.74 | 45.54 | 329.89 | 85.31 | 314.18 | 153.76 | 231.55 |
| 593 | 28.73 | 24.48 | 639 | 14.55 | 8.83 | 8.22 | 2.29 | 3.82 | .43 | .29 | .48 |
| | | | | 145.88 | 325.73 | 51.57 | 348.58 | 96.42 | 335.97 | 198.36 | 261.69 |
| 594 | 38.38 | 23.38 | 648 | 14.82 | 7.41 | 8.11 | 1.83 | 2.78 | .28 | .32 | .23 |
| | | | | 143.27 | 323.64 | 44.88 | 331.34 | 87.58 | 313.13 | 211.38 | 267.88 |
| 595 | 31.69 | 22.93 | 648 | 15.48 | 7.57 | 8.21 | 1.66 | 2.15 | .27 | .38 | .48 |
| | | | | 148.21 | 321.68 | 33.56 | 315.84 | 73.53 | 258.48 | 228.58 | 323.42 |
| 596 | 33.14 | 22.28 | 639 | 15.65 | 7.88 | 7.74 | 1.58 | 1.67 | .48 | .41 | .66 |
| | | | | 141.59 | 333.32 | 39.56 | 311.88 | 91.21 | 227.47 | 246.51 | 358.58 |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | 29.98 | 25.76 | 641 | 9.88 | 4.67 | 4.21 | 5.68 | 2.81 | 6.82 | 3.57 | 1.48 |
| | | | | 297.39 | 135.27 | 262.43 | 25.92 | 336.13 | 334.98 | 34.95 | 113.14 |
| 579 | 38.86 | 38.11 | 648 | 15.94 | 6.56 | 6.76 | 8.19 | 4.51 | 2.78 | 3.82 | 1.64 |
| | | | | 321.35 | 147.55 | 253.33 | 36.62 | 354.23 | 47.59 | 62.51 | 184.63 |
| 588 | 38.81 | 49.88 | 648 | 24.52 | 7.74 | 18.53 | 18.42 | 3.45 | 4.19 | 1.13 | 2.17 |
| | | | | 332.55 | 153.65 | 247.63 | 35.99 | 348.67 | 218.23 | 75.48 | 112.39 |
| 581 | 29.26 | 71.42 | 641 | 35.73 | 8.18 | 14.74 | 12.16 | 3.28 | 9.65 | .57 | 2.45 |
| | | | | 341.78 | 159.84 | 249.49 | 34.32 | 328.34 | 247.28 | 261.18 | 123.89 |
| 582 | 28.33 | 83.65 | 639 | 46.63 | 8.77 | 19.24 | 13.25 | 3.34 | 18.88 | .59 | 2.58 |
| | | | | 338.33 | 162.98 | 233.62 | 11.46 | 255.38 | 229.85 | 311.67 | 92.17 |
| 583 | 26.71 | 98.93 | 648 | 61.82 | 8.98 | 23.38 | 14.67 | 4.36 | 18.88 | 2.18 | 2.55 |
| | | | | 343.87 | 179.15 | 237.49 | 6.48 | 235.45 | 257.61 | 344.22 | 93.74 |
| 584 | 28.73 | 38.34 | 639 | 13.28 | 7.18 | 5.83 | 5.62 | 2.47 | 5.25 | .88 | 1.68 |
| | | | | 287.38 | 117.96 | 278.21 | 28.98 | 28.14 | 322.85 | 36.69 | 143.59 |
| 585 | 28.67 | 37.59 | 648 | 19.22 | 9.38 | 7.78 | 7.84 | 3.22 | 2.53 | 5.18 | 1.13 |
| | | | | 384.88 | 129.72 | 258.54 | 21.86 | 349.14 | 343.14 | 42.46 | 157.28 |
| 586 | 27.58 | 52.28 | 648 | 27.88 | 11.73 | 11.28 | 18.44 | 3.95 | 5.58 | 2.78 | 1.62 |
| | | | | 328.88 | 134.88 | 255.97 | 29.63 | 341.16 | 193.29 | 51.47 | 113.85 |
| 587 | 25.71 | 66.94 | 648 | 37.24 | 12.63 | 15.97 | 11.63 | 4.54 | 18.62 | .26 | 2.89 |
| | | | | 338.88 | 146.88 | 259.61 | 36.36 | 338.33 | 243.85 | 184.72 | 131.55 |
| 588 | 23.88 | 78.71 | 648 | 46.41 | 12.98 | 19.68 | 12.33 | 6.56 | 12.45 | 1.67 | 1.78 |
| | | | | 333.83 | 149.18 | 257.48 | 31.62 | 328.55 | 254.86 | 241.18 | 134.45 |
| 589 | 21.93 | 92.78 | 648 | 59.86 | 12.86 | 23.91 | 13.39 | 8.88 | 11.38 | 4.12 | 1.75 |
| | | | | 334.52 | 149.78 | 246.88 | 8.15 | 294.38 | 248.79 | 232.65 | 128.15 |
| 598 | 21.18 | 181.72 | 648 | 67.73 | 13.77 | 27.51 | 12.89 | 18.11 | 12.88 | 4.55 | 1.58 |
| | | | | 341.85 | 156.86 | 247.39 | 359.82 | 284.88 | 281.73 | 269.34 | 158.47 |
| 591 | 28.88 | 34.94 | 641 | 17.89 | 8.71 | 6.67 | 4.77 | 4.48 | 4.12 | 5.66 | 1.41 |
| | | | | 288.59 | 128.57 | 271.36 | 39.69 | 284.88 | 219.59 | 25.96 | 114.79 |
| 592 | 26.24 | 46.35 | 648 | 23.86 | 12.24 | 8.94 | 7.26 | 283.36 | 389.87 | 42.87 | 185.86 |
| | | | | 382.21 | 136.88 | 278.69 | 35.42 | 7.11 | 4.63 | 5.91 | 1.31 |
| 593 | 24.78 | 54.38 | 639 | 28.34 | 14.18 | 11.83 | 8.98 | 7.29 | 7.84 | 3.51 | 52.63 |
| | | | | 313.79 | 146.36 | 279.62 | 55.85 | 386.83 | 332.84 | 75.81 | 1.18 |
| 594 | 22.33 | 64.29 | 648 | 37.22 | 15.38 | 14.25 | 18.72 | 7.29 | 7.84 | 3.51 | 51.81 |
| | | | | 323.56 | 147.17 | 274.88 | 53.75 | 383.88 | 317.28 | 55.56 | 337.61 |
| 595 | 19.84 | 72.92 | 648 | 49.21 | 16.33 | 18.45 | 11.96 | 8.48 | 9.73 | 4.23 | 2.41 |
| | | | | 332.31 | 145.69 | 269.41 | 39.32 | 318.38 | 318.55 | 318.23 | 337.61 |
| 596 | 16.42 | 84.76 | 639 | 68.45 | 17.11 | 22.51 | 12.65 | 8.83 | 12.97 | 9.39 | 4.19 |
| | | | | 343.48 | 158.48 | 288.37 | 41.52 | 348.88 | 352.28 | 338.44 | 8.19 |

TABLE VIII.- Continued

(d) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|----------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|--------------|
| RUN NO 18 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 578 | -1.48 | 5.72 | 641 | 2.98 315.83 | 1.38 89.14 | .29 386.14 | 1.89 251.76 | 1.85 312.88 | .68 88.51 | .42 241.16 | .14 38.19 | AMP PHASE |
| 579 | -3.29 | 6.85 | 648 | 3.19 333.88 | 1.19 99.51 | .25 268.89 | 1.28 253.78 | 1.84 329.82 | .49 187.89 | .48 255.57 | .88 22.88 | AMP PHASE |
| 588 | -5.48 | 6.24 | 648 | 3.92 348.77 | .94 187.49 | .39 246.98 | 1.32 258.81 | 1.81 331.99 | .48 188.48 | .52 236.52 | .18 341.41 | AMP PHASE |
| 581 | -7.77 | 7.78 | 641 | 4.99 .67 | .88 114.23 | .68 235.15 | 1.44 251.62 | .99 342.88 | .64 115.96 | .75 219.41 | .18 386.38 | AMP PHASE |
| 582 | -9.91 | 8.83 | 639 | 6.86 2.13 | .83 189.51 | .98 211.28 | 1.48 228.85 | .97 328.88 | .76 91.81 | .85 186.15 | .28 277.38 | AMP PHASE |
| 583 | -12.22 | 11.57 | 648 | 7.84 7.54 | 1.14 185.56 | 1.39 289.63 | 1.35 233.82 | 1.14 332.35 | .98 97.98 | 1.85 192.18 | .34 268.21 | AMP PHASE |
| 584 | -.36 | 6.94 | 639 | 3.34 311.46 | 2.19 95.99 | .26 328.22 | 1.55 261.68 | 1.28 322.79 | .57 94.22 | .61 267.39 | .21 43.99 | AMP PHASE |
| 585 | -2.37 | 7.27 | 648 | 3.61 328.24 | 1.81 97.91 | .15 278.67 | 1.47 256.56 | 1.33 334.28 | .69 98.93 | .69 262.78 | .21 52.48 | AMP PHASE |
| 586 | -4.49 | 7.69 | 648 | 4.31 342.48 | 1.64 99.75 | .26 232.82 | 1.66 253.31 | 1.27 347.36 | .54 188.98 | .75 249.42 | .11 346.59 | AMP PHASE |
| 587 | -7.86 | 8.88 | 648 | 5.58 355.75 | 1.55 185.68 | .63 227.59 | 1.64 257.22 | 1.28 5.81 | .78 113.43 | .89 243.83 | .16 94 | AMP PHASE |
| 588 | -9.17 | 18.56 | 648 | 6.82 1.43 | 1.75 184.29 | 1.84 222.23 | 1.63 253.82 | 1.38 2.24 | .72 188.47 | .95 231.76 | .22 21.54 | AMP PHASE |
| 589 | -11.69 | 13.83 | 648 | 8.88 3.81 | 2.25 95.77 | 1.53 288.25 | 1.54 239.55 | 1.45 338.73 | .46 69.82 | .93 217.51 | .39 349.98 | AMP PHASE |
| 598 | -13.54 | 15.73 | 648 | 11.14 3.68 | 2.95 86.93 | 1.77 286.49 | 1.56 241.55 | 1.59 329.51 | .87 253.85 | 1.24 226.85 | .29 328.58 | AMP PHASE |
| 591 | .57 | 8.49 | 641 | 4.84 312.77 | 2.78 183.58 | .23 358.83 | 2.86 264.83 | 1.26 316.42 | .43 81.68 | .67 258.18 | .11 341.85 | AMP PHASE |
| 592 | -1.68 | 8.39 | 648 | 4.28 338.17 | 2.31 186.96 | .24 311.88 | 1.78 273.34 | 1.38 333.98 | .58 131.94 | 1.83 269.28 | .15 356.82 | AMP PHASE |
| 593 | -3.64 | 8.64 | 639 | 4.81 343.16 | 2.11 114.51 | .19 296.89 | 1.86 281.41 | 1.18 358.84 | .49 161.82 | 1.14 292.55 | .25 338.17 | AMP PHASE |
| 594 | -6.18 | 9.57 | 648 | 5.88 351.78 | 2.11 188.27 | .48 245.73 | 1.89 272.81 | 1.86 338.13 | .31 151.21 | 1.14 281.86 | .13 261.25 | AMP PHASE |
| 595 | -8.95 | 11.33 | 648 | 7.86 356.26 | 2.43 99.32 | .86 231.69 | 2.38 261.12 | 1.24 314.43 | .18 323.34 | 1.89 274.98 | .33 188.22 | AMP PHASE |
| 596 | -12.13 | 14.78 | 639 | 18.57 4.82 | 2.96 183.39 | 1.39 244.44 | 2.56 269.28 | 1.73 312.96 | .72 333.21 | 1.16 292.56 | .71 285.81 | AMP PHASE |

TABLE VIII.- Continued

(d) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | 13.83 | 23.03 | 641 | 15.36 | 7.89 | 6.44 | 1.22 | 1.65 | 1.54 | 1.05 | 1.09 AMP |
| | | | | 135.33 | 321.69 | 20.18 | 302.00 | 236.42 | 100.17 | 15.39 | 186.78 PHASE |
| 579 | 15.31 | 24.65 | 640 | 16.60 | 8.62 | 7.48 | 1.19 | 1.74 | 1.65 | 1.00 | 1.00 AMP |
| | | | | 138.22 | 326.59 | 23.21 | 301.92 | 244.14 | 113.62 | 21.66 | 199.40 PHASE |
| 580 | 17.32 | 25.47 | 640 | 17.61 | 8.78 | 8.16 | 1.12 | 1.71 | 1.66 | 1.00 | 1.00 AMP |
| | | | | 138.94 | 325.59 | 20.04 | 296.70 | 243.61 | 109.90 | 14.48 | 187.51 PHASE |
| 581 | 19.33 | 27.26 | 641 | 18.70 | 9.12 | 8.96 | 1.11 | 1.69 | 1.66 | 1.12 | 1.05 AMP |
| | | | | 140.81 | 325.88 | 20.41 | 293.66 | 249.33 | 108.17 | 6.47 | 171.56 PHASE |
| 582 | 21.46 | 28.35 | 639 | 19.71 | 9.20 | 9.38 | .99 | 1.63 | 1.60 | .95 | 1.00 AMP |
| | | | | 136.18 | 316.36 | 3.31 | 271.02 | 226.10 | 76.03 | 327.98 | 128.77 PHASE |
| 583 | 23.58 | 29.22 | 640 | 20.57 | 9.15 | 9.19 | .84 | 1.63 | 1.65 | 1.05 | 1.21 AMP |
| | | | | 136.79 | 316.69 | 3.16 | 266.25 | 234.50 | 67.34 | 326.23 | 118.57 PHASE |
| 584 | 10.94 | 29.43 | 639 | 17.37 | 11.22 | 8.32 | 1.83 | 2.07 | 1.03 | 1.91 | 1.96 AMP |
| | | | | 133.57 | 315.53 | 30.94 | 316.06 | 241.49 | 111.94 | 31.37 | 218.02 PHASE |
| 585 | 12.87 | 29.76 | 640 | 18.11 | 10.00 | 8.76 | 1.84 | 2.12 | 1.08 | 1.68 | 1.92 AMP |
| | | | | 134.53 | 314.22 | 26.62 | 312.31 | 240.96 | 100.97 | 30.75 | 217.06 PHASE |
| 586 | 14.69 | 30.52 | 640 | 19.22 | 10.91 | 9.63 | 1.80 | 2.08 | 1.16 | 1.82 | 1.62 AMP |
| | | | | 135.66 | 312.09 | 23.64 | 310.04 | 243.17 | 101.93 | 26.60 | 215.58 PHASE |
| 587 | 17.03 | 30.64 | 640 | 20.21 | 10.58 | 9.67 | 1.69 | 1.96 | 1.03 | 1.79 | 1.79 AMP |
| | | | | 137.02 | 315.18 | 25.32 | 315.75 | 254.30 | 100.26 | 29.42 | 217.76 PHASE |
| 588 | 18.72 | 31.24 | 640 | 20.92 | 10.30 | 9.00 | 1.60 | 1.84 | .97 | 1.70 | 1.70 AMP |
| | | | | 136.40 | 311.00 | 19.06 | 307.14 | 247.13 | 95.60 | 16.45 | 209.25 PHASE |
| 589 | 20.72 | 31.24 | 640 | 21.55 | 9.93 | 9.47 | 1.55 | 1.82 | .87 | 1.70 | 1.89 AMP |
| | | | | 132.01 | 303.72 | 4.43 | 284.42 | 235.67 | 71.74 | 340.73 | 176.71 PHASE |
| 590 | 21.66 | 32.39 | 640 | 21.74 | 10.21 | 9.11 | 1.51 | 1.88 | .84 | 1.96 | 1.70 AMP |
| | | | | 132.33 | 305.40 | 4.23 | 283.03 | 240.02 | 65.12 | 342.46 | 179.15 PHASE |
| 591 | 8.41 | 35.21 | 641 | 18.97 | 13.95 | 8.76 | 1.50 | 2.29 | 1.88 | 2.79 | 1.88 AMP |
| | | | | 133.42 | 310.05 | 36.69 | 327.49 | 232.72 | 98.42 | 20.63 | 205.98 PHASE |
| 592 | 10.38 | 34.94 | 640 | 19.81 | 13.12 | 8.87 | 1.64 | 2.10 | 1.87 | 2.06 | 1.71 AMP |
| | | | | 137.39 | 314.24 | 40.74 | 339.22 | 245.39 | 106.53 | 45.42 | 238.36 PHASE |
| 593 | 12.10 | 34.03 | 639 | 20.42 | 12.46 | 9.19 | 1.62 | 2.09 | 1.85 | 2.61 | 1.80 AMP |
| | | | | 141.12 | 319.97 | 45.55 | 348.21 | 260.20 | 125.94 | 71.17 | 268.73 PHASE |
| 594 | 14.09 | 32.53 | 640 | 21.05 | 11.38 | 9.62 | 1.55 | 1.78 | 1.73 | 2.39 | .79 AMP |
| | | | | 140.21 | 314.34 | 37.71 | 341.22 | 251.04 | 113.00 | 67.10 | 307.92 PHASE |
| 595 | 15.90 | 32.81 | 640 | 22.28 | 11.36 | 9.70 | 1.42 | 1.32 | 1.87 | 2.31 | 1.75 AMP |
| | | | | 137.91 | 310.62 | 27.93 | 340.96 | 234.59 | 89.79 | 50.94 | 335.27 PHASE |
| 596 | 17.77 | 32.83 | 639 | 23.09 | 11.32 | 9.31 | 1.22 | .94 | 1.70 | 2.60 | 2.66 AMP |
| | | | | 140.73 | 318.98 | 35.41 | 3.18 | 243.89 | 97.20 | 70.15 | 6.60 PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | 5.13 | 26.09 | 641 | 10.60 | 4.77 | 3.57 | 6.12 | 2.62 | 7.90 | 4.18 | 1.73 AMP |
| | | | | 301.00 | 141.57 | 278.57 | 31.23 | 331.39 | 335.56 | 39.44 | 116.07 PHASE |
| 579 | 5.04 | 32.39 | 640 | 15.65 | 6.25 | 5.35 | 4.71 | 4.16 | 2.95 | 3.40 | 2.06 AMP |
| | | | | 317.37 | 150.17 | 267.93 | 40.33 | 351.00 | 39.98 | 60.73 | 99.16 PHASE |
| 580 | 4.72 | 43.05 | 640 | 22.26 | 7.17 | 8.30 | 11.04 | 3.32 | 4.76 | 1.09 | 2.08 AMP |
| | | | | 325.98 | 153.53 | 261.00 | 30.67 | 336.06 | 226.51 | 94.05 | 110.62 PHASE |
| 581 | 3.89 | 63.59 | 641 | 30.69 | 7.40 | 11.75 | 12.98 | 3.24 | 11.11 | 1.29 | 3.24 AMP |
| | | | | 333.97 | 156.52 | 262.13 | 36.70 | 319.00 | 251.15 | 252.54 | 123.27 PHASE |
| 582 | 2.86 | 72.12 | 639 | 39.11 | 7.57 | 15.44 | 14.46 | 3.19 | 12.48 | .81 | 3.38 AMP |
| | | | | 330.01 | 156.02 | 245.46 | 13.58 | 255.95 | 231.73 | 265.35 | 89.93 PHASE |
| 583 | 1.07 | 84.12 | 640 | 49.91 | 7.24 | 19.23 | 16.19 | 4.03 | 11.62 | 2.20 | 3.22 AMP |
| | | | | 335.29 | 160.32 | 240.04 | 8.20 | 235.62 | 259.03 | 331.00 | 89.37 PHASE |
| 584 | 6.16 | 30.07 | 639 | 13.94 | 7.19 | 5.11 | 6.11 | 1.98 | 6.25 | 5.92 | 1.66 AMP |
| | | | | 292.09 | 125.15 | 203.04 | 39.06 | 15.42 | 322.75 | 41.68 | 152.91 PHASE |
| 585 | 5.75 | 37.63 | 640 | 18.02 | 8.04 | 6.43 | 8.30 | 2.71 | 3.23 | 6.00 | 1.01 AMP |
| | | | | 303.35 | 132.24 | 273.41 | 20.02 | 340.02 | 340.92 | 45.84 | 170.50 PHASE |
| 586 | 5.07 | 51.64 | 640 | 24.05 | 10.56 | 9.18 | 11.03 | 3.61 | 6.15 | 3.25 | 2.00 AMP |
| | | | | 314.65 | 134.73 | 269.75 | 34.59 | 333.31 | 199.79 | 55.48 | 106.96 PHASE |
| 587 | 3.39 | 62.66 | 640 | 32.91 | 11.25 | 13.01 | 12.36 | 4.41 | 12.05 | .35 | 2.03 AMP |
| | | | | 323.48 | 142.51 | 271.48 | 40.03 | 325.00 | 246.77 | 119.33 | 130.44 PHASE |
| 588 | 1.60 | 71.30 | 640 | 40.17 | 11.49 | 16.39 | 13.25 | 6.36 | 14.20 | 2.00 | 2.44 AMP |
| | | | | 326.74 | 143.49 | 260.54 | 33.70 | 318.19 | 250.07 | 245.05 | 131.00 PHASE |
| 589 | -1.77 | 78.96 | 640 | 50.11 | 10.96 | 20.40 | 14.60 | 7.93 | 12.92 | 5.28 | 2.45 AMP |
| | | | | 327.52 | 140.19 | 255.03 | 8.90 | 294.37 | 251.43 | 236.93 | 116.98 PHASE |
| 590 | -1.70 | 84.46 | 640 | 55.79 | 13.52 | 24.23 | 14.48 | 10.09 | 14.62 | 5.78 | 2.42 AMP |
| | | | | 334.84 | 146.36 | 254.06 | 359.56 | 203.87 | 203.63 | 272.50 | 152.65 PHASE |
| 591 | 7.37 | 37.48 | 641 | 17.12 | 8.85 | 5.65 | 5.40 | 4.58 | 4.93 | 6.61 | 1.30 AMP |
| | | | | 204.85 | 124.02 | 201.51 | 49.54 | 203.47 | 227.01 | 29.53 | 100.04 PHASE |
| 592 | 6.19 | 43.21 | 640 | 22.22 | 11.59 | 7.21 | 7.66 | 6.86 | 7.81 | 6.96 | .91 AMP |
| | | | | 300.99 | 137.20 | 203.11 | 43.50 | 201.91 | 311.26 | 46.72 | 95.00 PHASE |
| 593 | 4.81 | 49.11 | 639 | 26.38 | 12.77 | 8.03 | 9.52 | 6.69 | 5.73 | 7.25 | 1.00 AMP |
| | | | | 310.91 | 145.44 | 291.56 | 61.09 | 300.06 | 333.83 | 82.01 | 60.31 PHASE |
| 594 | 2.50 | 57.42 | 640 | 33.52 | 13.71 | 11.55 | 11.60 | 6.97 | 9.34 | 4.42 | 1.03 AMP |
| | | | | 310.71 | 143.53 | 205.19 | 56.02 | 304.29 | 319.70 | 70.30 | 63.98 PHASE |
| 595 | -1.01 | 69.10 | 640 | 43.51 | 14.62 | 15.53 | 13.12 | 8.50 | 11.43 | 3.00 | 3.21 AMP |
| | | | | 325.00 | 139.67 | 279.35 | 40.01 | 314.93 | 314.71 | 316.22 | 351.41 PHASE |
| 596 | -3.94 | 77.94 | 639 | 52.58 | 15.01 | 19.62 | 14.40 | 9.29 | 14.84 | 9.50 | 5.40 AMP |
| | | | | 336.66 | 150.51 | 207.94 | 41.32 | 340.41 | 356.39 | 342.87 | 11.00 PHASE |

TABLE VIII.- Continued

(d) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | -.14 | 5.82 | 641 | 2.47 | 1.68 | .27 | 1.86 | 1.85 | .61 | .44 | .23 AMP |
| | | | | 323.48 | 188.53 | 332.33 | 284.39 | 345.29 | 122.88 | 291.73 | 183.36 PHASE |
| 579 | -1.95 | 5.83 | 648 | 2.88 | 1.36 | .18 | 1.15 | 1.86 | .53 | .44 | .11 AMP |
| | | | | 344.98 | 114.14 | 296.48 | 283.87 | 359.62 | 143.11 | 382.78 | 127.97 PHASE |
| 580 | -4.88 | 6.14 | 648 | 3.52 | 1.18 | .26 | 1.17 | 1.88 | .52 | .52 | .88 AMP |
| | | | | .43 | 125.88 | 252.24 | 288.68 | 1.23 | 148.78 | 284.66 | 62.32 PHASE |
| 581 | -6.35 | 7.76 | 641 | 4.64 | 1.83 | .47 | 1.27 | 1.12 | .72 | .79 | .28 AMP |
| | | | | 12.18 | 135.38 | 235.22 | 279.71 | 18.83 | 147.33 | 264.24 | 5.81 PHASE |
| 582 | -8.41 | 8.59 | 639 | 5.76 | 1.82 | .74 | 1.26 | 1.14 | .85 | .93 | .27 AMP |
| | | | | 13.12 | 133.86 | 211.11 | 257.43 | 349.58 | 122.29 | 238.38 | 328.81 PHASE |
| 583 | -18.56 | 11.29 | 648 | 7.37 | 1.19 | .84 | 1.17 | 1.38 | 1.81 | 1.15 | .41 AMP |
| | | | | 18.48 | 136.98 | 213.33 | 258.79 | 358.92 | 126.43 | 234.31 | 323.83 PHASE |
| 584 | .83 | 7.89 | 639 | 2.96 | 2.46 | .36 | 1.45 | 1.23 | .64 | .64 | .28 AMP |
| | | | | 318.48 | 189.18 | 349.83 | 291.55 | 355.93 | 133.42 | 323.63 | 126.37 PHASE |
| 585 | -1.13 | 7.35 | 648 | 3.28 | 2.81 | .19 | 1.35 | 1.34 | .79 | .72 | .29 AMP |
| | | | | 336.92 | 113.52 | 324.47 | 286.47 | 4.59 | 135.72 | 313.21 | 131.77 PHASE |
| 586 | -3.17 | 7.67 | 648 | 3.83 | 1.79 | .16 | 1.45 | 1.38 | .67 | .73 | .84 AMP |
| | | | | 352.89 | 118.57 | 274.96 | 281.94 | 15.84 | 144.25 | 381.16 | 136.43 PHASE |
| 587 | -5.58 | 8.61 | 648 | 4.86 | 1.55 | .38 | 1.48 | 1.38 | .85 | .88 | .18 AMP |
| | | | | 5.88 | 125.61 | 243.62 | 283.81 | 32.51 | 147.71 | 292.98 | 67.15 PHASE |
| 588 | -7.47 | 9.62 | 648 | 5.94 | 1.54 | .66 | 1.46 | 1.49 | .94 | .93 | .21 AMP |
| | | | | 11.17 | 122.84 | 224.85 | 276.71 | 27.25 | 133.68 | 288.52 | 92.78 PHASE |
| 589 | -9.72 | 11.96 | 648 | 7.72 | 1.84 | .86 | 1.52 | 1.79 | .78 | 1.81 | .48 AMP |
| | | | | 11.84 | 188.69 | 199.92 | 258.43 | 4.31 | 182.71 | 278.25 | 58.82 PHASE |
| 590 | -11.36 | 14.26 | 648 | 9.66 | 2.35 | 1.28 | 1.54 | 1.96 | .23 | 1.41 | .41 AMP |
| | | | | 11.77 | 95.88 | 191.39 | 256.73 | 358.49 | 188.18 | 282.33 | 43.44 PHASE |
| 591 | 1.71 | 8.75 | 641 | 3.58 | 2.89 | .34 | 1.96 | 1.33 | .53 | .74 | .88 AMP |
| | | | | 318.48 | 116.17 | 357.69 | 293.44 | 358.93 | 117.93 | 387.48 | 133.35 PHASE |
| 592 | -.47 | 8.34 | 648 | 3.73 | 2.48 | .38 | 1.64 | 1.36 | .63 | 1.89 | .86 AMP |
| | | | | 336.87 | 122.87 | 348.42 | 384.66 | 7.38 | 163.23 | 318.98 | 51.54 PHASE |
| 593 | -2.31 | 8.55 | 639 | 4.12 | 2.13 | .31 | 1.67 | 1.24 | .64 | 1.16 | .24 AMP |
| | | | | 358.74 | 131.38 | 352.65 | 311.86 | 22.26 | 192.89 | 348.44 | 18.68 PHASE |
| 594 | -4.52 | 8.70 | 648 | 4.98 | 1.86 | .18 | 1.68 | 1.19 | .34 | 1.19 | .12 AMP |
| | | | | 359.69 | 125.87 | 387.65 | 299.75 | 18.96 | 179.81 | 331.86 | 329.58 PHASE |
| 595 | -7.88 | 18.33 | 648 | 6.68 | 1.93 | .58 | 2.22 | 1.42 | .16 | 1.17 | .32 AMP |
| | | | | 3.86 | 112.59 | 238.47 | 285.77 | 358.85 | 14.85 | 323.47 | 248.45 PHASE |
| 596 | -9.88 | 13.45 | 639 | 8.85 | 2.31 | 1.81 | 2.69 | 1.74 | .79 | 1.22 | .74 AMP |
| | | | | 9.96 | 187.18 | 233.87 | 294.63 | 353.39 | 1.53 | 349.68 | 261.23 PHASE |

TABLE VIII.- Continued

(d) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | -1.86 | 27.88 | 641 | 19.86 | 9.81 | 3.87 | 3.45 | 4.33 | .15 | 1.15 | 1.58 AMP |
| | | | | 133.79 | 322.85 | 329.59 | 136.88 | 234.83 | 122.87 | 185.68 | 7.78 PHASE |
| 579 | 1.45 | 38.86 | 648 | 28.89 | 9.73 | 4.88 | 3.58 | 4.28 | .22 | 1.88 | 1.25 AMP |
| | | | | 138.64 | 327.86 | 348.19 | 141.82 | 234.13 | 123.88 | 187.93 | 28.82 PHASE |
| 580 | 4.77 | 31.77 | 648 | 28.98 | 18.88 | 5.14 | 3.34 | 4.19 | .89 | 1.14 | 1.33 AMP |
| | | | | 141.36 | 327.48 | 342.79 | 135.89 | 229.85 | 127.15 | 181.81 | 7.25 PHASE |
| 581 | 8.15 | 34.22 | 641 | 22.87 | 18.84 | 5.61 | 3.28 | 4.42 | .18 | 1.38 | 1.44 AMP |
| | | | | 145.17 | 327.22 | 346.12 | 127.69 | 233.23 | 11.83 | 172.26 | 348.93 PHASE |
| 582 | 11.47 | 35.58 | 639 | 23.87 | 11.25 | 5.97 | 2.89 | 4.78 | .45 | 1.88 | 1.38 AMP |
| | | | | 142.46 | 316.91 | 333.23 | 188.81 | 287.54 | 352.22 | 129.45 | 384.76 PHASE |
| 583 | 14.72 | 37.58 | 648 | 24.43 | 11.92 | 5.73 | 2.72 | 4.91 | .54 | 1.27 | 1.55 AMP |
| | | | | 145.42 | 317.26 | 335.38 | 91.84 | 215.16 | 353.88 | 138.44 | 294.45 PHASE |
| 584 | -3.92 | 33.56 | 639 | 21.33 | 11.84 | 4.57 | 5.25 | 5.46 | .74 | 2.25 | 2.83 AMP |
| | | | | 132.11 | 317.88 | 339.27 | 142.37 | 252.73 | 257.44 | 283.31 | 48.81 PHASE |
| 585 | -.91 | 35.51 | 648 | 21.86 | 11.72 | 4.96 | 4.95 | 5.46 | .65 | 1.89 | 2.77 PHASE |
| | | | | 135.13 | 318.38 | 337.75 | 135.23 | 254.41 | 252.42 | 199.78 | 37.68 PHASE |
| 586 | 2.14 | 36.66 | 648 | 22.71 | 11.98 | 5.57 | 4.52 | 5.86 | .65 | 2.11 | 2.33 AMP |
| | | | | 138.13 | 317.67 | 339.58 | 132.45 | 255.49 | 255.88 | 192.81 | 37.18 PHASE |
| 587 | 5.85 | 36.98 | 648 | 23.69 | 12.18 | 5.36 | 3.66 | 5.16 | .46 | 2.85 | 2.47 AMP |
| | | | | 142.74 | 328.32 | 344.18 | 129.78 | 265.65 | 298.59 | 192.34 | 39.46 PHASE |
| 588 | 8.67 | 38.32 | 648 | 24.61 | 12.34 | 5.28 | 2.94 | 5.28 | .54 | 1.93 | 2.44 AMP |
| | | | | 143.41 | 316.72 | 339.49 | 115.33 | 258.57 | 328.26 | 176.64 | 32.25 PHASE |
| 589 | 11.96 | 39.63 | 648 | 25.91 | 12.64 | 5.84 | 2.32 | 5.93 | .86 | 1.69 | 2.68 AMP |
| | | | | 141.56 | 389.51 | 323.98 | 83.89 | 242.91 | 318.27 | 138.72 | 358.88 PHASE |
| 590 | 13.48 | 41.82 | 648 | 26.72 | 13.44 | 4.76 | 2.37 | 6.39 | .97 | 1.98 | 2.77 PHASE |
| | | | | 143.41 | 311.61 | 328.32 | 68.12 | 251.97 | 317.38 | 148.66 | 4.51 PHASE |
| 591 | -6.48 | 37.13 | 641 | 23.83 | 13.72 | 4.42 | 6.91 | 4.79 | 1.61 | 3.87 | 2.34 AMP |
| | | | | 131.23 | 311.69 | 343.88 | 144.63 | 243.35 | 283.38 | 282.88 | 36.76 PHASE |
| 592 | -3.28 | 36.58 | 648 | 23.58 | 13.89 | 4.33 | 5.96 | 5.17 | 1.39 | 3.91 | 2.18 AMP |
| | | | | 137.37 | 315.98 | 353.11 | 155.49 | 255.57 | 283.24 | 225.25 | 72.48 PHASE |
| 593 | -.35 | 36.52 | 639 | 24.84 | 12.69 | 4.38 | 5.38 | 5.19 | 1.27 | 3.58 | 1.35 AMP |
| | | | | 142.67 | 322.69 | 1.68 | 166.16 | 267.71 | 295.22 | 248.65 | 112.71 PHASE |
| 594 | 3.81 | 37.39 | 648 | 24.69 | 11.97 | 4.58 | 4.18 | 4.84 | 1.36 | 3.13 | 1.62 AMP |
| | | | | 143.47 | 318.78 | 359.16 | 155.92 | 262.58 | 298.82 | 241.24 | 149.85 PHASE |
| 595 | 6.44 | 48.23 | 648 | 26.44 | 11.94 | 4.82 | 3.77 | 4.85 | 1.61 | 3.22 | 3.22 AMP |
| | | | | 143.58 | 315.88 | 351.23 | 141.89 | 253.89 | 286.46 | 226.76 | 153.46 PHASE |
| 596 | 9.74 | 41.88 | 639 | 27.86 | 11.88 | 3.29 | 3.21 | 3.38 | 1.54 | 2.87 | 4.73 AMP |
| | | | | 148.45 | 324.17 | 357.78 | 148.83 | 283.62 | 321.96 | 242.61 | 181.81 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 578 | -18.75 | 15.69 | 641 | 3.93 | 2.48 | 2.78 | 2.43 | 2.29 | 3.54 | 1.66 | .88 AMP |
| | | | | 152.24 | 318.85 | 333.87 | 55.37 | 251.99 | 328.88 | 41.79 | 65.34 PHASE |
| 579 | -18.58 | 14.28 | 648 | 2.49 | 2.35 | 3.39 | 3.58 | 2.14 | 1.24 | 1.43 | 1.27 AMP |
| | | | | 162.28 | 326.14 | 333.98 | 56.98 | 273.21 | 29.28 | 74.84 | 64.37 PHASE |
| 580 | -9.45 | 15.24 | 648 | 2.86 | 2.36 | 4.89 | 4.52 | 2.34 | 2.12 | .68 | 1.41 AMP |
| | | | | 212.53 | 327.53 | 324.35 | 49.81 | 259.27 | 225.89 | 122.76 | 79.38 PHASE |
| 581 | -7.95 | 18.51 | 641 | 2.38 | 2.81 | 5.87 | 5.39 | 2.81 | 4.92 | .77 | 1.28 AMP |
| | | | | 389.49 | 338.87 | 319.47 | 45.23 | 259.82 | 247.55 | 219.95 | 92.48 PHASE |
| 582 | -6.82 | 22.17 | 639 | 5.11 | 3.26 | 6.82 | 6.19 | 3.42 | 5.46 | .27 | 1.34 AMP |
| | | | | 318.69 | 318.24 | 297.74 | 28.55 | 221.86 | 228.84 | 282.98 | 61.13 PHASE |
| 583 | -4.93 | 24.79 | 648 | 8.23 | 4.83 | 7.89 | 6.92 | 3.93 | 5.14 | .71 | 1.12 AMP |
| | | | | 316.81 | 315.42 | 291.79 | 13.63 | 228.46 | 255.34 | 325.72 | 58.68 PHASE |
| 584 | -11.47 | 17.48 | 639 | 4.41 | 3.82 | 3.57 | 2.69 | 2.34 | 2.99 | 2.83 | .94 AMP |
| | | | | 157.58 | 319.42 | 339.42 | 75.99 | 258.46 | 318.91 | 43.41 | 73.44 PHASE |
| 585 | -11.47 | 16.68 | 648 | 3.88 | 2.49 | 4.88 | 3.37 | 2.89 | 1.78 | 2.28 | .86 AMP |
| | | | | 174.85 | 328.25 | 333.75 | 54.38 | 262.92 | 325.11 | 46.45 | 45.47 PHASE |
| 586 | -18.31 | 16.71 | 648 | 1.72 | 2.21 | 4.93 | 4.61 | 3.15 | 2.62 | 1.19 | 1.64 AMP |
| | | | | 215.54 | 324.45 | 327.98 | 58.52 | 278.46 | 281.43 | 67.79 | 64.68 PHASE |
| 587 | -8.77 | 19.87 | 648 | 2.92 | 2.31 | 5.73 | 5.37 | 3.78 | 5.27 | .55 | 1.84 AMP |
| | | | | 284.75 | 328.86 | 323.21 | 49.59 | 279.98 | 245.87 | 155.98 | 86.83 PHASE |
| 588 | -7.28 | 21.34 | 648 | 5.85 | 2.54 | 6.73 | 5.86 | 4.34 | 6.38 | .87 | 1.78 AMP |
| | | | | 381.18 | 324.94 | 314.88 | 39.53 | 279.87 | 256.55 | 213.87 | 81.42 PHASE |
| 589 | -6.37 | 27.81 | 648 | 7.97 | 3.83 | 7.88 | 6.46 | 5.27 | 6.82 | 2.86 | 1.43 AMP |
| | | | | 387.24 | 317.16 | 293.78 | 11.98 | 262.62 | 258.81 | 224.64 | 68.71 PHASE |
| 590 | -4.72 | 32.65 | 648 | 7.97 | 1.86 | 8.75 | 6.28 | 6.99 | 7.84 | 2.22 | .89 AMP |
| | | | | 318.69 | 295.56 | 288.84 | 357.77 | 264.16 | 281.82 | 264.25 | 186.31 PHASE |
| 591 | -13.24 | 18.88 | 641 | 4.98 | 3.58 | 3.52 | 3.21 | 3.81 | 2.41 | 1.82 | 1.19 AMP |
| | | | | 165.45 | 388.11 | 342.53 | 97.15 | 258.85 | 233.78 | 25.48 | 56.67 PHASE |
| 592 | -12.29 | 18.55 | 648 | 3.61 | 2.53 | 3.83 | 3.28 | 4.94 | 3.84 | 2.82 | 1.25 AMP |
| | | | | 186.92 | 318.24 | 345.82 | 78.81 | 259.85 | 385.58 | 41.17 | 74.81 PHASE |
| 593 | -18.93 | 19.45 | 639 | 2.95 | 2.81 | 4.44 | 4.15 | 4.68 | 2.45 | 2.45 | 1.49 AMP |
| | | | | 216.24 | 319.88 | 358.97 | 83.93 | 277.69 | 325.31 | 82.77 | 78.58 PHASE |
| 594 | -9.78 | 21.13 | 648 | 3.11 | 1.58 | 5.15 | 5.14 | 4.58 | 4.54 | 1.46 | 1.52 AMP |
| | | | | 265.33 | 322.69 | 339.98 | 78.32 | 276.23 | 313.89 | 79.95 | 188.82 PHASE |
| 595 | -8.73 | 26.25 | 648 | 5.18 | 1.71 | 5.17 | 5.92 | 4.28 | 5.56 | 1.16 | 1.88 AMP |
| | | | | 299.11 | 332.64 | 326.86 | 51.59 | 287.69 | 318.98 | 292.58 | 76.65 PHASE |
| 596 | -7.27 | 32.57 | 639 | 7.15 | 1.11 | 6.78 | 6.11 | 4.32 | 7.11 | 3.19 | .39 AMP |
| | | | | 319.69 | 355.11 | 322.27 | 51.32 | 327.35 | 352.84 | 327.88 | 61.13 PHASE |

TABLE VIII.- Continued

(d) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 18 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 578 | -2.34 | 4.45 | 641 | 1.94 | 1.68 | .86 | .95 | .73 | .45 | .23 | .87 | AMP |
| | | | | 298.16 | 114.12 | 328.86 | 384.25 | 331.34 | 126.28 | 339.72 | 157.49 | PHASE |
| 579 | -4.88 | 4.45 | 648 | 1.89 | 1.45 | .89 | .92 | .75 | .44 | .27 | .87 | AMP |
| | | | | 326.13 | 131.97 | 221.76 | 383.65 | 336.87 | 143.49 | 345.74 | 215.38 | PHASE |
| 580 | -5.98 | 5.84 | 648 | 2.34 | 1.36 | .21 | .87 | .78 | .44 | .26 | .86 | AMP |
| | | | | 352.36 | 148.76 | 191.64 | 296.87 | 337.67 | 131.89 | 339.12 | 259.37 | PHASE |
| 581 | -7.92 | 6.88 | 641 | 3.24 | 1.47 | .36 | .87 | .88 | .54 | .24 | .18 | AMP |
| | | | | 11.27 | 163.66 | 183.96 | 289.43 | 345.51 | 128.69 | 381.81 | 314.86 | PHASE |
| 582 | -9.67 | 7.86 | 639 | 4.26 | 1.67 | .55 | .86 | .83 | .63 | .32 | .16 | AMP |
| | | | | 15.65 | 182.19 | 166.82 | 259.79 | 325.17 | 97.84 | 242.52 | 298.35 | PHASE |
| 583 | -11.52 | 8.84 | 648 | 5.67 | 2.81 | .61 | .81 | .81 | .69 | .44 | .18 | AMP |
| | | | | 23.86 | 169.21 | 158.29 | 252.89 | 334.22 | 97.58 | 241.12 | 297.81 | PHASE |
| 584 | -1.77 | 6.16 | 639 | 2.59 | 2.44 | .13 | 1.27 | 1.88 | .58 | .62 | .18 | AMP |
| | | | | 294.78 | 112.24 | 313.78 | 315.87 | 334.44 | 146.46 | 18.43 | 237.83 | PHASE |
| 585 | -3.56 | 5.89 | 648 | 2.39 | 2.89 | .86 | 1.18 | .93 | .68 | .53 | .19 | AMP |
| | | | | 316.94 | 128.83 | 237.69 | 311.31 | 336.98 | 137.73 | 8.87 | 228.78 | PHASE |
| 586 | -5.35 | 6.82 | 648 | 2.66 | 1.92 | .12 | 1.18 | .91 | .65 | .58 | .25 | AMP |
| | | | | 339.63 | 138.95 | 181.12 | 385.58 | 348.78 | 138.23 | 3.53 | 268.21 | PHASE |
| 587 | -7.43 | 6.87 | 648 | 3.37 | 1.81 | .25 | .95 | .87 | .73 | .48 | .22 | AMP |
| | | | | 1.53 | 147.42 | 182.78 | 382.23 | 357.42 | 138.75 | 358.43 | 271.74 | PHASE |
| 588 | -9.82 | 7.39 | 648 | 4.19 | 1.83 | .41 | .95 | .89 | .77 | .48 | .17 | AMP |
| | | | | 18.98 | 152.73 | 181.18 | 289.34 | 357.61 | 122.97 | 344.94 | 259.88 | PHASE |
| 589 | -18.75 | 8.81 | 648 | 5.42 | 2.88 | .46 | .79 | .93 | .78 | .65 | .86 | AMP |
| | | | | 16.83 | 154.79 | 158.93 | 264.96 | 342.56 | 88.44 | 314.47 | 188.61 | PHASE |
| 590 | -11.89 | 8.76 | 648 | 6.49 | 1.77 | .57 | .68 | .87 | .38 | 1.88 | .14 | AMP |
| | | | | 16.24 | 156.16 | 185.52 | 261.17 | 345.58 | 86.82 | 312.26 | 5.87 | PHASE |
| 591 | -1.28 | 7.96 | 641 | 3.37 | 1.81 | .25 | .95 | .87 | .73 | .48 | .22 | AMP |
| | | | | 298.42 | 118.88 | 281.47 | 314.34 | 328.22 | 139.39 | 6.38 | 288.86 | PHASE |
| 592 | -3.25 | 7.43 | 648 | 3.84 | 2.43 | .48 | 1.32 | 1.26 | .54 | .83 | .38 | AMP |
| | | | | 318.57 | 121.39 | 285.64 | 326.38 | 344.18 | 156.28 | 12.16 | 313.88 | PHASE |
| 593 | -4.81 | 7.14 | 639 | 3.89 | 2.18 | .33 | 1.26 | 1.17 | .48 | .88 | .49 | AMP |
| | | | | 336.47 | 135.38 | 299.94 | 332.18 | 358.75 | 177.84 | 38.18 | 358.63 | PHASE |
| 594 | -6.63 | 7.87 | 648 | 3.48 | 1.88 | .27 | 1.13 | 1.87 | .31 | .79 | .55 | AMP |
| | | | | 351.57 | 148.79 | 282.25 | 319.79 | 349.52 | 158.99 | 19.82 | 348.76 | PHASE |
| 595 | -8.53 | 7.52 | 648 | 4.25 | 1.78 | .34 | 1.18 | 1.81 | .14 | .82 | .69 | AMP |
| | | | | 3.18 | 148.28 | 259.85 | 299.33 | 332.72 | 78.77 | 1.85 | 322.34 | PHASE |
| 596 | -18.38 | 7.65 | 639 | 5.46 | 1.63 | .26 | 1.16 | 1.88 | .58 | 1.82 | .73 | AMP |
| | | | | 14.86 | 163.54 | 255.36 | 296.29 | 325.21 | 349.46 | 24.58 | 336.13 | PHASE |

| PITCH LINK | | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 18 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 578 | 1.45 | 6.64 | 641 | 2.55 | .57 | 1.25 | 1.41 | 1.78 | .49 | .78 | .26 | AMP |
| | | | | 177.28 | 283.16 | 158.55 | 98.88 | 178.44 | 316.12 | 61.34 | 188.44 | PHASE |
| 579 | 3.82 | 7.23 | 648 | 3.22 | .38 | 1.28 | 1.78 | 1.74 | .41 | .62 | .25 | AMP |
| | | | | 194.16 | 318.61 | 157.18 | 182.99 | 185.84 | 348.83 | 65.77 | 186.82 | PHASE |
| 580 | 4.86 | 9.25 | 648 | 4.49 | .39 | 1.28 | 1.74 | 1.79 | .42 | .76 | .34 | AMP |
| | | | | 286.46 | 13.74 | 135.98 | 188.25 | 187.83 | 359.57 | 59.97 | 172.81 | PHASE |
| 581 | 6.78 | 11.28 | 641 | 6.18 | .52 | 1.25 | 1.83 | 1.88 | .78 | 1.17 | .52 | AMP |
| | | | | 211.87 | 26.94 | 113.98 | 181.18 | 192.28 | .32 | 53.85 | 155.35 | PHASE |
| 582 | 8.78 | 13.42 | 639 | 8.22 | .56 | 1.44 | 1.76 | 1.82 | .95 | 1.87 | .52 | AMP |
| | | | | 288.77 | 21.57 | 75.41 | 79.71 | 166.56 | 329.72 | 27.61 | 121.17 | PHASE |
| 583 | 18.82 | 16.64 | 648 | 11.22 | .55 | 2.21 | 1.81 | 1.92 | 1.28 | 1.15 | .75 | AMP |
| | | | | 288.88 | 348.21 | 57.82 | 88.28 | 171.53 | 333.61 | 48.28 | 111.25 | PHASE |
| 584 | .86 | 8.18 | 639 | 3.88 | 1.27 | 1.22 | 2.12 | 1.83 | .31 | .92 | .51 | AMP |
| | | | | 168.79 | 294.39 | 172.67 | 183.88 | 186.51 | 385.26 | 72.91 | 227.45 | PHASE |
| 585 | 1.89 | 9.17 | 648 | 3.96 | .84 | 1.84 | 2.88 | 2.16 | .68 | .96 | .45 | AMP |
| | | | | 184.38 | 297.36 | 166.13 | 99.24 | 196.78 | 338.72 | 84.23 | 216.49 | PHASE |
| 586 | 3.78 | 18.92 | 648 | 4.94 | .93 | .96 | 2.36 | 2.15 | .51 | 1.19 | .53 | AMP |
| | | | | 194.72 | 388.85 | 151.46 | 99.22 | 287.17 | .83 | 71.63 | 288.75 | PHASE |
| 587 | 5.95 | 13.62 | 648 | 6.89 | .88 | .92 | 2.28 | 2.19 | .74 | 1.39 | .65 | AMP |
| | | | | 283.78 | 321.73 | 117.75 | 182.62 | 221.19 | 6.89 | 73.44 | 211.98 | PHASE |
| 588 | 7.83 | 15.61 | 648 | 8.98 | 1.84 | 1.28 | 2.18 | 2.28 | .74 | 1.36 | .78 | AMP |
| | | | | 284.46 | 311.98 | 87.89 | 99.53 | 212.21 | 355.54 | 67.25 | 215.62 | PHASE |
| 589 | 18.19 | 19.14 | 648 | 12.83 | 1.61 | 1.96 | 2.86 | 2.21 | 1.53 | 1.18 | .96 | AMP |
| | | | | 282.94 | 296.82 | 59.68 | 86.28 | 188.82 | 5.38 | 63.32 | 186.87 | PHASE |
| 590 | 12.88 | 22.36 | 648 | 15.85 | 2.42 | 2.68 | 2.12 | 2.15 | .73 | 1.38 | .86 | AMP |
| | | | | 281.66 | 278.22 | 51.71 | 88.64 | 188.13 | 62.18 | 74.85 | 166.17 | PHASE |
| 591 | -1.88 | 18.48 | 641 | 3.78 | 1.76 | 1.13 | 2.88 | 1.89 | .32 | 1.14 | .36 | AMP |
| | | | | 166.64 | 386.68 | 186.47 | 187.77 | 188.84 | 318.44 | 51.23 | 283.88 | PHASE |
| 592 | 1.81 | 11.91 | 648 | 4.82 | 1.58 | 1.18 | 2.49 | 1.94 | .66 | 1.47 | .46 | AMP |
| | | | | 181.75 | 387.62 | 181.17 | 117.94 | 288.77 | 21.88 | 91.63 | 223.16 | PHASE |
| 593 | 2.75 | 13.34 | 639 | 5.98 | 1.61 | 1.82 | 2.61 | 1.76 | .78 | 1.58 | .26 | AMP |
| | | | | 192.72 | 328.72 | 185.45 | 129.92 | 215.44 | 55.17 | 118.88 | 215.92 | PHASE |
| 594 | 4.96 | 15.25 | 648 | 7.68 | 1.75 | .89 | 2.46 | 1.51 | .61 | 1.57 | .24 | AMP |
| | | | | 197.33 | 315.17 | 161.31 | 119.68 | 281.65 | 68.46 | 113.83 | 31.87 | PHASE |
| 595 | 7.78 | 18.58 | 648 | 18.25 | 2.12 | 1.12 | 2.75 | 1.88 | .66 | 1.41 | .92 | AMP |
| | | | | 198.43 | 384.18 | 118.45 | 189.23 | 178.77 | 188.81 | 185.33 | 7.27 | PHASE |
| 596 | 18.87 | 23.35 | 639 | 14.24 | 2.87 | 1.82 | 2.92 | 2.41 | 1.12 | 1.51 | 1.39 | AMP |
| | | | | 283.95 | 386.88 | 185.71 | 116.43 | 159.65 | 159.33 | 127.42 | 36.44 | PHASE |

TABLE VIII.- Continued

(e) $\mu = 0.40$; $M_T = 0.62$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CU/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 597 | -.4 | 2.6 | 2.2 | .01819 | .00209 | .00137 |
| 598 | -.1 | 4.6 | 4.1 | .02844 | .00182 | .00156 |
| 600 | -.6 | 5.1 | 6.3 | .04388 | .00189 | .00172 |
| 601 | -1.1 | 5.7 | 8.1 | .06002 | .00224 | .00194 |
| 602 | .9 | 2.7 | 4.2 | .01134 | .00130 | .00162 |
| 603 | .0 | 4.3 | 6.1 | .02041 | .00005 | .00206 |
| 604 | -.7 | 5.3 | 8.2 | .03525 | -.00140 | .00277 |
| 605 | -1.5 | 6.5 | 10.3 | .04739 | -.00293 | .00353 |
| 606 | -2.4 | 7.8 | 12.1 | .05717 | -.00435 | .00436 |
| 607 | -1.9 | 9.0 | 13.1 | .06141 | -.00513 | .00496 |
| 608 | 1.0 | 4.7 | 8.1 | .01264 | .00045 | .00200 |
| 609 | .2 | 5.8 | 10.2 | .02434 | -.00168 | .00298 |
| 610 | -.2 | 6.6 | 12.2 | .04103 | -.00441 | .00424 |
| 611 | -1.2 | 7.9 | 14.0 | .04962 | -.00652 | .00537 |
| 612 | -1.9 | 9.2 | 16.0 | .06166 | -.00928 | .00663 |
| 613 | -2.3 | 9.6 | 17.0 | .06629 | -.01004 | .00752 |

TABLE VIII.- Continued

(e) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 41.17 | 38.87 | 584 | 13.38 | 18.91 | 18.83 | 6.89 | 9.47 | 2.44 | 2.51 | 8.38 AMP |
| | | | | 152.28 | 334.36 | 77.83 | 14.83 | 133.48 | 8.81 | 242.18 | 189.86 PHASE |
| 598 | 42.68 | 39.78 | 584 | 14.53 | 11.84 | 18.58 | 6.76 | 9.29 | 2.63 | 2.33 | 8.21 AMP |
| | | | | 152.57 | 335.52 | 74.27 | 15.84 | 139.58 | 9.81 | 239.41 | 112.66 PHASE |
| 600 | 44.23 | 48.52 | 584 | 14.58 | 18.94 | 18.27 | 6.77 | 8.43 | 2.54 | 2.82 | 8.27 AMP |
| | | | | 148.85 | 327.42 | 59.28 | 356.71 | 128.87 | 351.47 | 286.41 | 77.83 PHASE |
| 601 | 45.56 | 38.84 | 584 | 14.53 | 18.88 | 9.59 | 6.68 | 7.47 | 2.65 | 1.86 | 7.78 AMP |
| | | | | 146.23 | 326.34 | 54.75 | 353.32 | 128.84 | 6.88 | 288.59 | 73.34 PHASE |
| 602 | 41.44 | 31.28 | 584 | 12.98 | 9.58 | 8.87 | 4.85 | 7.77 | 1.85 | 1.78 | 5.41 AMP |
| | | | | 158.91 | 338.87 | 64.48 | 8.48 | 128.28 | 1.39 | 255.42 | 184.49 PHASE |
| 603 | 43.18 | 29.59 | 585 | 13.81 | 9.17 | 7.76 | 4.71 | 7.52 | 1.85 | 1.68 | 4.45 AMP |
| | | | | 152.57 | 332.81 | 45.73 | 358.65 | 183.64 | 335.95 | 236.24 | 76.54 PHASE |
| 604 | 44.73 | 38.38 | 584 | 13.28 | 9.33 | 7.88 | 5.87 | 7.55 | 1.91 | 1.44 | 4.88 AMP |
| | | | | 152.95 | 337.72 | 47.71 | 356.38 | 116.84 | 351.68 | 258.88 | 97.68 PHASE |
| 605 | 46.43 | 28.43 | 585 | 13.13 | 8.88 | 7.45 | 4.77 | 7.21 | 1.98 | 1.88 | 3.97 AMP |
| | | | | 147.92 | 336.26 | 37.86 | 347.21 | 189.58 | 348.51 | 246.33 | 83.12 PHASE |
| 606 | 47.77 | 27.91 | 585 | 13.13 | 8.88 | 7.88 | 4.76 | 6.91 | 1.87 | 1.84 | 4.88 AMP |
| | | | | 141.67 | 332.88 | 23.95 | 332.89 | 95.16 | 335.59 | 224.66 | 61.45 PHASE |
| 607 | 48.58 | 27.68 | 584 | 13.34 | 8.66 | 6.86 | 4.73 | 6.84 | 2.83 | .91 | 3.98 AMP |
| | | | | 139.44 | 335.83 | 19.12 | 333.31 | 93.93 | 348.99 | 222.59 | 68.49 PHASE |
| 608 | 43.61 | 22.48 | 588 | 11.94 | 7.39 | 5.81 | 3.68 | 6.83 | 1.52 | 1.19 | 1.74 AMP |
| | | | | 157.49 | 336.91 | 31.91 | 1.72 | 92.28 | 328.11 | 251.38 | 64.26 PHASE |
| 609 | 45.29 | 22.67 | 586 | 11.96 | 7.57 | 5.25 | 3.91 | 5.95 | 1.73 | .96 | 1.59 AMP |
| | | | | 151.81 | 334.44 | 22.24 | 352.39 | 82.18 | 319.53 | 247.68 | 55.68 PHASE |
| 610 | 47.17 | 22.68 | 584 | 11.94 | 7.81 | 5.62 | 4.22 | 6.18 | 1.67 | 1.76 | 1.79 AMP |
| | | | | 148.66 | 348.39 | 23.96 | 358.75 | 91.46 | 329.21 | 256.41 | 75.83 PHASE |
| 611 | 48.68 | 22.85 | 583 | 11.69 | 7.57 | 5.48 | 4.25 | 5.86 | 1.59 | .65 | 1.87 AMP |
| | | | | 141.88 | 341.31 | 15.59 | 353.63 | 85.89 | 328.23 | 247.68 | 64.48 PHASE |
| 612 | 50.38 | 21.75 | 585 | 11.58 | 7.56 | 5.21 | 4.25 | 5.98 | 1.44 | .54 | 2.88 AMP |
| | | | | 132.73 | 343.18 | 2.57 | 344.28 | 84.45 | 329.89 | 215.18 | 55.81 PHASE |
| 613 | 50.87 | 22.36 | 584 | 11.81 | 7.82 | 5.34 | 4.46 | 5.89 | 1.38 | .42 | 2.82 AMP |
| | | | | 129.93 | 343.93 | 357.88 | 344.57 | 86.26 | 328.88 | 284.47 | 55.78 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 49.86 | 44.67 | 584 | 11.56 | 9.82 | 9.15 | 2.69 | 1.63 | 6.58 | 18.17 | 3.41 AMP |
| | | | | 259.31 | 153.81 | 271.21 | 84.78 | 162.57 | 194.88 | 194.97 | 177.75 PHASE |
| 598 | 49.85 | 58.53 | 584 | 14.46 | 14.62 | 14.28 | 4.15 | 12.48 | 12.95 | 13.88 | 2.87 AMP |
| | | | | 282.98 | 156.27 | 279.23 | 85.43 | 337.39 | 288.64 | 285.62 | 192.65 PHASE |
| 600 | 47.29 | 64.69 | 584 | 19.14 | 19.73 | 18.54 | 5.43 | .54 | 14.96 | 15.53 | 3.89 AMP |
| | | | | 386.47 | 154.78 | 267.28 | 71.45 | 348.22 | 188.31 | 182.22 | 157.49 PHASE |
| 601 | 45.72 | 78.86 | 584 | 25.55 | 23.46 | 22.82 | 7.38 | 2.64 | 16.52 | 16.86 | 3.48 AMP |
| | | | | 328.48 | 159.98 | 264.18 | 78.62 | 1.78 | 193.17 | 192.32 | 163.81 PHASE |
| 602 | 48.98 | 39.73 | 584 | 8.51 | 18.78 | 18.38 | 4.16 | 7.88 | 6.17 | 7.37 | 3.84 AMP |
| | | | | 269.92 | 147.66 | 288.79 | 89.39 | 114.51 | 284.35 | 218.58 | 176.63 PHASE |
| 603 | 49.31 | 45.61 | 585 | 18.81 | 14.43 | 13.76 | 4.75 | 1.33 | 7.61 | 9.19 | 2.74 AMP |
| | | | | 282.59 | 145.83 | 267.52 | 64.88 | 272.65 | 168.75 | 173.84 | 156.69 PHASE |
| 604 | 49.97 | 58.79 | 584 | 14.86 | 19.85 | 19.86 | 6.78 | 2.88 | 9.85 | 11.41 | 3.17 AMP |
| | | | | 319.22 | 168.85 | 266.29 | 75.16 | 384.87 | 196.87 | 194.58 | 182.34 PHASE |
| 605 | 58.79 | 59.89 | 585 | 21.44 | 21.88 | 24.15 | 8.38 | 2.54 | 9.36 | 12.58 | 3.82 AMP |
| | | | | 334.47 | 164.39 | 258.69 | 66.92 | 383.36 | 284.18 | 198.88 | 185.64 PHASE |
| 606 | 51.24 | 69.23 | 585 | 28.56 | 23.34 | 28.72 | 9.62 | 1.82 | 9.67 | 12.53 | 2.13 AMP |
| | | | | 338.17 | 165.58 | 252.12 | 61.19 | 381.28 | 199.74 | 178.15 | 175.64 PHASE |
| 607 | 51.18 | 83.43 | 584 | 37.75 | 24.26 | 31.62 | 18.89 | 2.87 | 18.53 | 12.81 | 3.83 AMP |
| | | | | 343.64 | 169.29 | 253.92 | 63.27 | 285.64 | 289.55 | 181.73 | 176.88 PHASE |
| 608 | 48.57 | 34.13 | 588 | 5.49 | 18.28 | 18.75 | 4.92 | 1.38 | 2.74 | 5.22 | 1.34 AMP |
| | | | | 288.84 | 147.65 | 266.32 | 68.87 | 333.25 | 147.75 | 167.89 | 133.87 PHASE |
| 609 | 58.35 | 41.96 | 586 | 18.84 | 14.58 | 15.86 | 7.48 | 2.49 | 4.47 | 7.16 | 1.71 AMP |
| | | | | 328.94 | 157.28 | 258.23 | 49.32 | 278.54 | 172.69 | 152.36 | 141.11 PHASE |
| 610 | 52.33 | 66.38 | 584 | 23.82 | 18.34 | 23.19 | 9.94 | 2.65 | 7.71 | 12.53 | 2.81 AMP |
| | | | | 357.84 | 172.31 | 254.46 | 63.83 | 295.69 | 259.15 | 179.57 | 282.78 PHASE |
| 611 | 53.25 | 78.67 | 583 | 32.22 | 19.89 | 27.97 | 11.85 | 2.18 | 3.21 | 6.64 | 1.96 AMP |
| | | | | .38 | 178.29 | 251.28 | 64.96 | 269.84 | 259.59 | 181.88 | 288.57 PHASE |
| 612 | 54.75 | 59.28 | 585 | 47.28 | 19.95 | 33.89 | 12.41 | 2.86 | 1.68 | 6.46 | 2.89 AMP |
| | | | | 1.15 | 184.61 | 249.92 | 63.46 | 241.68 | 242.88 | 167.37 | 282.94 PHASE |
| 613 | 54.88 | 111.83 | 584 | 53.86 | 21.59 | 37.52 | 13.41 | 3.18 | 1.89 | 7.89 | 2.19 AMP |
| | | | | 4.34 | 189.68 | 252.92 | 66.63 | 237.88 | 382.85 | 164.43 | 218.95 PHASE |

TABLE VIII.- Continued

(e) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 4.32 | 18.77 | 584 | 4.25 385.74 | 3.15 155.81 | .42 173.12 | 2.12 357.95 | 2.18 88.66 | 1.49 198.48 | .81 57.89 | 2.85 164.66 |
| 598 | 2.62 | 18.98 | 584 | 3.88 319.21 | 2.84 165.59 | .42 217.19 | 2.38 347.98 | 2.53 188.44 | 1.49 286.43 | .59 79.97 | 2.88 175.23 |
| 600 | .27 | 11.13 | 584 | 3.79 337.22 | 2.81 166.88 | .77 236.64 | 2.48 326.24 | 2.58 84.99 | 1.26 182.19 | .72 57.93 | 2.15 145.38 |
| 601 | -1.86 | 12.88 | 584 | 4.45 353.48 | 2.94 172.22 | 1.15 252.41 | 2.51 322.29 | 2.56 92.37 | .92 188.95 | .68 64.86 | 2.83 147.45 |
| 602 | 3.67 | 8.63 | 584 | 3.47 294.37 | 2.38 145.16 | 1.82 326.85 | 1.82 348.56 | 2.82 88.54 | 1.89 178.84 | .68 34.85 | 1.45 168.68 |
| 603 | 2.88 | 7.67 | 585 | 3.88 384.65 | 1.88 149.11 | 1.83 384.19 | 1.82 327.11 | 2.27 68.55 | 1.83 159.83 | .51 15.86 | 1.23 144.51 |
| 604 | .88 | 7.88 | 584 | 2.76 328.41 | 1.73 169.17 | 1.84 384.25 | 1.88 329.15 | 2.48 81.33 | 1.14 171.39 | .42 51.73 | 1.42 172.64 |
| 605 | -1.83 | 8.41 | 585 | 2.97 347.72 | 1.78 178.43 | 1.38 292.72 | 1.81 321.41 | 2.53 88.82 | 1.85 167.79 | .72 26.36 | 1.21 155.19 |
| 606 | -3.52 | 9.58 | 585 | 3.37 1.14 | 1.84 186.89 | 1.68 281.64 | 1.89 314.38 | 2.53 72.22 | 1.85 159.27 | .81 358.11 | 1.36 125.22 |
| 607 | -4.57 | 18.26 | 584 | 3.98 8.55 | 1.96 188.79 | 1.78 281.46 | 2.88 317.29 | 2.53 78.55 | 1.85 168.79 | .73 358.47 | 1.47 118.84 |
| 608 | 1.52 | 6.18 | 588 | 2.51 292.49 | 1.86 155.13 | 1.18 316.94 | 1.42 331.78 | 1.94 44.99 | .78 153.64 | .25 37.85 | .71 144.77 |
| 609 | -.27 | 5.95 | 586 | 2.12 314.13 | .99 177.45 | 1.38 299.44 | 1.36 318.63 | 2.18 43.29 | .98 153.32 | .19 7.18 | .73 137.78 |
| 610 | -2.47 | 6.99 | 584 | 2.48 358.29 | 1.27 195.54 | 1.56 388.58 | 1.51 331.67 | 2.14 62.73 | .98 173.88 | .55 2.28 | .76 148.84 |
| 611 | -4.18 | 7.15 | 583 | 3.84 4.63 | 1.52 205.43 | 1.69 293.84 | 1.62 327.58 | 1.99 62.37 | .97 178.38 | .47 357.78 | .89 128.48 |
| 612 | -6.26 | 9.11 | 585 | 4.22 16.41 | 1.82 285.83 | 2.88 281.75 | 1.65 328.53 | 2.87 66.72 | 1.84 187.75 | .63 347.88 | 1.83 118.82 |
| 613 | -7.18 | 18.18 | 584 | 4.77 28.98 | 2.88 289.48 | 2.28 283.48 | 1.64 325.84 | 2.11 72.98 | 1.18 194.88 | .68 356.89 | 1.89 111.71 |



TABLE VIII.- Continued

(e) Continued

FLAPWISE 37 PERCENT RADIUS

| RUN NO 18 | | | | | | | | | | | |
|-----------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 22.25 | 36.79 | 584 | 18.58 | 15.88 | 11.92 | 5.91 | 4.38 | .91 | .48 | 2.87 AMP |
| | | | | 146.78 | 337.84 | 73.33 | 1.93 | 144.89 | 9.41 | 282.95 | 285.55 PHASE |
| 598 | 23.75 | 37.98 | 584 | 19.75 | 15.44 | 12.11 | 5.68 | 4.26 | .93 | .54 | 1.97 AMP |
| | | | | 146.99 | 338.18 | 71.26 | 4.87 | 153.32 | 14.54 | 288.52 | 288.77 PHASE |
| 600 | 25.26 | 38.96 | 584 | 28.93 | 15.53 | 12.68 | 5.22 | 3.66 | .85 | .78 | 2.85 AMP |
| | | | | 143.88 | 329.64 | 56.68 | 349.88 | 136.62 | 356.88 | 249.57 | 254.46 PHASE |
| 601 | 26.51 | 39.28 | 584 | 21.88 | 15.65 | 12.53 | 4.81 | 3.14 | .88 | .66 | 1.98 AMP |
| | | | | 142.78 | 328.66 | 52.99 | 348.65 | 138.87 | 18.88 | 253.52 | 252.54 PHASE |
| 602 | 23.62 | 38.29 | 584 | 16.71 | 13.18 | 9.55 | 4.17 | 3.66 | .85 | .27 | 1.36 AMP |
| | | | | 148.68 | 348.16 | 66.36 | 355.87 | 123.27 | 8.14 | 288.91 | 286.73 PHASE |
| 603 | 25.27 | 29.84 | 585 | 17.84 | 12.98 | 9.54 | 3.96 | 3.66 | .82 | .31 | 1.18 AMP |
| | | | | 144.84 | 333.91 | 58.18 | 339.87 | 187.33 | 337.72 | 256.41 | 258.33 PHASE |
| 604 | 26.79 | 31.12 | 584 | 18.21 | 13.56 | 18.19 | 4.18 | 3.51 | .81 | .53 | 1.28 AMP |
| | | | | 146.24 | 339.74 | 53.81 | 348.86 | 128.93 | 353.21 | 261.71 | 288.83 PHASE |
| 605 | 28.48 | 38.84 | 585 | 18.69 | 13.22 | 18.42 | 3.89 | 3.33 | .71 | .62 | 1.14 AMP |
| | | | | 144.13 | 337.72 | 47.28 | 341.87 | 113.41 | 348.71 | 249.29 | 264.84 PHASE |
| 606 | 29.72 | 31.89 | 585 | 19.26 | 13.43 | 18.68 | 3.73 | 3.21 | .63 | .64 | 1.18 AMP |
| | | | | 148.94 | 333.72 | 38.89 | 329.85 | 96.75 | 318.66 | 237.29 | 243.68 PHASE |
| 607 | 38.58 | 31.55 | 584 | 19.75 | 13.42 | 18.71 | 3.52 | 3.22 | .75 | .66 | 1.16 AMP |
| | | | | 148.48 | 334.24 | 36.61 | 326.47 | 94.21 | 312.89 | 242.98 | 244.82 PHASE |
| 608 | 26.74 | 22.78 | 588 | 14.67 | 18.34 | 6.63 | 2.76 | 3.18 | .54 | .22 | .52 AMP |
| | | | | 145.66 | 339.51 | 45.85 | 346.38 | 92.62 | 317.83 | 264.14 | 244.55 PHASE |
| 609 | 28.21 | 23.49 | 586 | 15.62 | 18.84 | 7.31 | 2.87 | 3.86 | .52 | .25 | .44 AMP |
| | | | | 142.94 | 336.61 | 37.37 | 348.44 | 82.21 | 314.88 | 243.48 | 239.45 PHASE |
| 610 | 29.87 | 25.38 | 584 | 16.73 | 11.66 | 8.52 | 3.82 | 3.21 | .45 | .43 | .57 AMP |
| | | | | 144.63 | 341.75 | 42.39 | 346.86 | 98.74 | 296.33 | 258.33 | 258.33 PHASE |
| 611 | 31.32 | 26.17 | 583 | 17.88 | 11.53 | 8.79 | 3.87 | 3.87 | .56 | .49 | .67 AMP |
| | | | | 143.81 | 342.33 | 38.61 | 343.96 | 88.37 | 288.95 | 251.81 | 248.67 PHASE |
| 612 | 33.85 | 25.78 | 585 | 17.65 | 11.62 | 9.11 | 2.81 | 3.83 | .61 | .51 | .74 AMP |
| | | | | 141.88 | 341.48 | 34.52 | 337.88 | 78.63 | 273.82 | 264.44 | 234.89 PHASE |
| 613 | 33.62 | 26.72 | 584 | 18.32 | 12.28 | 9.31 | 2.88 | 3.89 | .65 | .56 | .75 AMP |
| | | | | 148.98 | 342.44 | 34.98 | 339.88 | 79.82 | 266.92 | 266.83 | 237.84 PHASE |

CHORDWISE 37 PERCENT RADIUS

| RUN NO 18 | | | | | | | | | | | |
|-----------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 23.64 | 41.22 | 584 | 11.35 | 7.65 | 5.59 | 4.23 | 2.33 | 9.55 | 16.58 | 6.37 AMP |
| | | | | 266.98 | 143.91 | 287.56 | 75.63 | 171.73 | 288.66 | 194.25 | 249.84 PHASE |
| 598 | 22.78 | 58.88 | 584 | 14.27 | 12.14 | 18.13 | 6.77 | 1.13 | 18.19 | 21.88 | 6.99 AMP |
| | | | | 284.98 | 158.99 | 296.35 | 83.62 | 258.12 | 282.85 | 286.49 | 259.71 PHASE |
| 600 | 21.22 | 64.45 | 584 | 18.68 | 16.34 | 13.85 | 9.68 | 1.33 | 28.56 | 25.38 | 6.56 AMP |
| | | | | 383.45 | 151.87 | 286.85 | 78.39 | 235.74 | 182.17 | 183.13 | 224.84 PHASE |
| 601 | 19.23 | 71.95 | 584 | 24.39 | 19.98 | 17.52 | 12.88 | 2.41 | 22.96 | 25.83 | 7.11 AMP |
| | | | | 321.54 | 158.18 | 285.16 | 71.17 | 321.85 | 194.17 | 195.58 | 214.25 PHASE |
| 602 | 23.26 | 36.82 | 584 | 8.84 | 8.53 | 6.85 | 5.78 | .59 | 8.58 | 12.94 | 3.87 AMP |
| | | | | 274.12 | 142.49 | 293.98 | 78.38 | 161.68 | 287.88 | 218.78 | 232.86 PHASE |
| 603 | 22.98 | 43.38 | 585 | 9.78 | 11.36 | 9.62 | 7.24 | 1.97 | 18.19 | 15.39 | 4.18 AMP |
| | | | | 283.38 | 143.17 | 281.67 | 59.12 | 258.79 | 169.58 | 175.94 | 285.51 PHASE |
| 604 | 23.88 | 47.23 | 584 | 13.36 | 15.18 | 13.48 | 18.19 | 2.74 | 12.25 | 19.58 | 4.53 AMP |
| | | | | 311.76 | 158.81 | 288.56 | 71.54 | 285.95 | 198.96 | 198.82 | 221.85 PHASE |
| 605 | 23.18 | 56.44 | 585 | 19.89 | 16.94 | 17.37 | 12.56 | 3.39 | 13.88 | 21.52 | 5.84 AMP |
| | | | | 324.74 | 163.15 | 272.78 | 65.39 | 286.67 | 287.93 | 194.88 | 286.85 PHASE |
| 606 | 22.96 | 56.75 | 585 | 24.58 | 18.94 | 21.87 | 14.77 | 2.45 | 14.16 | 21.44 | 5.81 AMP |
| | | | | 328.62 | 164.65 | 266.93 | 58.86 | 284.17 | 284.66 | 182.28 | 193.42 PHASE |
| 607 | 22.46 | 77.72 | 584 | 31.22 | 19.82 | 23.71 | 16.26 | 2.77 | 15.98 | 28.23 | 5.91 AMP |
| | | | | 334.34 | 168.98 | 268.95 | 68.68 | 277.67 | 214.54 | 186.48 | 198.94 PHASE |
| 608 | 22.16 | 38.17 | 588 | 5.37 | 8.82 | 6.97 | 6.79 | 1.22 | 3.29 | 9.86 | 1.25 AMP |
| | | | | 283.88 | 149.71 | 283.51 | 61.48 | 326.58 | 144.28 | 169.83 | 182.17 PHASE |
| 609 | 23.24 | 39.48 | 586 | 9.23 | 11.39 | 18.14 | 18.82 | 2.82 | 5.61 | 12.34 | 1.84 AMP |
| | | | | 319.96 | 159.87 | 263.85 | 48.31 | 266.46 | 178.68 | 157.57 | 156.85 PHASE |
| 610 | 24.28 | 61.87 | 584 | 18.26 | 14.56 | 16.58 | 13.58 | 3.82 | 5.25 | 13.58 | 3.57 AMP |
| | | | | 347.78 | 172.96 | 266.29 | 62.28 | 286.26 | 258.13 | 187.55 | 213.36 PHASE |
| 611 | 24.49 | 78.88 | 583 | 24.38 | 15.25 | 28.27 | 15.28 | 2.36 | 5.93 | 11.61 | 4.18 AMP |
| | | | | 358.87 | 178.75 | 262.67 | 62.38 | 266.61 | 258.26 | 192.22 | 288.65 PHASE |
| 612 | 24.79 | 88.17 | 585 | 35.62 | 16.52 | 25.89 | 17.64 | 2.82 | 4.19 | 18.31 | 4.74 AMP |
| | | | | 352.46 | 184.64 | 261.55 | 59.68 | 235.82 | 248.25 | 179.51 | 193.56 PHASE |
| 613 | 24.51 | 97.87 | 584 | 48.53 | 18.14 | 28.25 | 19.19 | 3.21 | 3.63 | 18.83 | 5.86 AMP |
| | | | | 355.74 | 189.56 | 264.86 | 62.38 | 233.19 | 273.15 | 176.42 | 218.88 PHASE |

TABLE VIII.- Continued

(e) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------|
| RUN NO | | 18 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 3.42 | 18.22 | 584 | 4.61 | 3.48 | 167.64 | 1.74 | 1.82 | 1.23 | .77 | 1.48 |
| | | | | 384.83 | 133.26 | 167.29 | 327.63 | 58.31 | 158.13 | 18.81 | 117.86 |
| 598 | 1.74 | 18.21 | 584 | 4.42 | 3.16 | 198.69 | 1.95 | 2.12 | 1.26 | .61 | 1.51 |
| | | | | 317.81 | 139.12 | 198.72 | 318.41 | 61.12 | 166.99 | 26.23 | 128.67 |
| 600 | -5.57 | 18.39 | 584 | 4.51 | 2.98 | 198.98 | 1.96 | 2.88 | 1.84 | .74 | 1.59 |
| | | | | 338.66 | 137.98 | 198.42 | 296.82 | 45.34 | 144.25 | 4.58 | 99.77 |
| 601 | -2.65 | 11.15 | 584 | 5.13 | 2.99 | 1.26 | 2.85 | 2.89 | .73 | .66 | 1.54 |
| | | | | 343.68 | 141.92 | 211.87 | 293.34 | 53.95 | 152.76 | 11.64 | 182.27 |
| 602 | 2.67 | 8.57 | 584 | 3.88 | 2.85 | .35 | 1.54 | 1.73 | .91 | .65 | 1.85 |
| | | | | 297.89 | 121.17 | 254.14 | 315.79 | 41.26 | 139.84 | 351.26 | 112.34 |
| 603 | 1.13 | 7.88 | 585 | 3.59 | 2.32 | .49 | 1.56 | 1.95 | .88 | .54 | .91 |
| | | | | 387.64 | 119.59 | 243.12 | 295.12 | 21.98 | 119.33 | 338.72 | 94.58 |
| 604 | -.86 | 7.74 | 584 | 3.58 | 2.87 | .84 | 1.63 | 2.13 | .97 | .46 | 1.88 |
| | | | | 328.29 | 133.88 | 255.34 | 297.45 | 41.47 | 131.71 | 2.61 | 124.33 |
| 605 | -2.72 | 8.38 | 585 | 3.86 | 1.87 | 1.86 | 1.56 | 2.17 | .85 | .69 | .91 |
| | | | | 342.85 | 148.84 | 248.21 | 298.67 | 39.85 | 126.53 | 341.17 | 185.45 |
| 606 | -4.38 | 8.93 | 585 | 4.27 | 1.85 | 1.34 | 1.63 | 2.16 | .98 | .75 | 1.83 |
| | | | | 358.79 | 147.85 | 239.48 | 283.81 | 32.88 | 117.37 | 314.27 | 74.45 |
| 607 | -5.38 | 9.86 | 584 | 4.77 | 1.94 | 1.45 | 1.78 | 2.15 | .93 | .69 | 1.18 |
| | | | | 357.51 | 151.84 | 248.64 | 287.33 | 38.18 | 127.25 | 388.71 | 66.51 |
| 608 | .56 | 6.86 | 588 | 3.83 | 1.43 | .72 | 1.26 | 1.68 | .62 | .29 | .53 |
| | | | | 382.11 | 115.68 | 277.77 | 298.43 | 6.47 | 114.75 | 346.48 | 93.63 |
| 609 | -1.19 | 6.31 | 586 | 2.94 | 1.18 | .93 | 1.22 | 1.98 | .76 | .23 | .55 |
| | | | | 328.18 | 127.16 | 258.97 | 286.72 | 4.81 | 112.69 | 328.64 | 84.74 |
| 610 | -3.33 | 7.86 | 584 | 3.41 | 1.23 | 1.13 | 1.31 | 1.88 | .79 | .51 | .58 |
| | | | | 345.29 | 151.26 | 261.33 | 299.71 | 23.93 | 132.49 | 316.99 | 94.35 |
| 611 | -4.89 | 7.31 | 583 | 3.95 | 1.32 | 1.25 | 1.42 | 1.77 | .82 | .44 | .67 |
| | | | | 355.38 | 165.46 | 256.29 | 296.59 | 22.66 | 137.33 | 311.23 | 75.42 |
| 612 | -6.98 | 9.11 | 585 | 4.97 | 1.59 | 1.54 | 1.42 | 1.78 | .91 | .57 | .88 |
| | | | | 4.78 | 173.23 | 245.36 | 289.48 | 27.39 | 147.53 | 299.33 | 57.87 |
| 613 | -7.84 | 18.85 | 584 | 5.51 | 1.79 | 1.73 | 1.39 | 1.82 | .97 | .61 | .84 |
| | | | | 8.98 | 178.18 | 248.37 | 295.86 | 33.72 | 152.56 | 387.88 | 58.36 |

TABLE VIII.- Continued

(e) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------|-------|
| RUN NO 18 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 597 | 5.48 | 53.25 | 584 | 24.85 | 19.78 | 13.38 | 1.95 | 4.76 | 2.55 | 2.22 | 7.87 | AMP |
| 598 | 7.87 | 54.41 | 584 | 141.37 | 338.63 | 63.61 | 18.41 | 388.58 | 185.97 | 57.53 | 281.92 | PHASE |
| 599 | 8.88 | 54.87 | 584 | 25.97 | 28.25 | 13.83 | 1.85 | 4.81 | 2.64 | 2.12 | 7.88 | AMP |
| 600 | 8.88 | 54.87 | 584 | 142.51 | 339.86 | 63.84 | 22.62 | 383.72 | 187.25 | 53.28 | 286.21 | PHASE |
| 601 | 18.43 | 54.79 | 584 | 27.56 | 28.58 | 14.85 | 1.86 | 4.61 | 2.28 | 1.79 | 7.99 | AMP |
| 602 | 7.56 | 44.83 | 584 | 139.58 | 338.42 | 58.86 | 7.33 | 283.98 | 166.77 | 23.15 | 251.98 | PHASE |
| 603 | 9.68 | 42.69 | 585 | 28.93 | 28.78 | 15.16 | 1.88 | 4.23 | 2.14 | 1.61 | 7.48 | AMP |
| 604 | 11.34 | 45.15 | 584 | 139.67 | 329.58 | 47.45 | 18.78 | 283.16 | 178.77 | 19.18 | 248.88 | PHASE |
| 605 | 13.16 | 44.17 | 585 | 22.17 | 17.56 | 11.21 | 1.77 | 3.85 | 1.71 | 1.58 | 5.15 | AMP |
| 606 | 14.81 | 44.85 | 585 | 148.96 | 341.85 | 68.75 | 3.44 | 292.49 | 173.28 | 62.76 | 277.89 | PHASE |
| 607 | 15.82 | 45.39 | 584 | 22.63 | 17.21 | 11.56 | 1.82 | 3.69 | 1.58 | 1.46 | 4.15 | AMP |
| 608 | 17.14 | 37.28 | 583 | 137.23 | 334.37 | 46.36 | 351.59 | 274.52 | 142.58 | 48.54 | 251.36 | PHASE |
| 609 | 19.28 | 38.88 | 585 | 24.16 | 18.86 | 12.61 | 1.83 | 3.95 | 1.66 | 1.29 | 4.59 | AMP |
| 610 | 19.87 | 48.87 | 584 | 148.43 | 348.17 | 51.66 | 4.79 | 288.18 | 158.62 | 51.18 | 271.91 | PHASE |
| 611 | 17.14 | 37.28 | 583 | 24.88 | 17.85 | 13.19 | 1.98 | 3.76 | 1.54 | .92 | 3.79 | AMP |
| 612 | 19.28 | 38.88 | 585 | 139.48 | 337.68 | 46.94 | 359.22 | 288.58 | 152.85 | 48.38 | 257.82 | PHASE |
| 613 | 19.87 | 48.87 | 584 | 25.81 | 18.18 | 13.79 | 1.86 | 3.57 | 1.53 | .89 | 3.88 | AMP |
| | | | | 136.92 | 333.77 | 48.18 | 349.88 | 267.24 | 138.21 | 18.87 | 237.18 | PHASE |
| | | | | 26.41 | 18.37 | 13.96 | 1.63 | 3.42 | 1.48 | .73 | 3.98 | AMP |
| | | | | 137.18 | 333.52 | 39.68 | 348.49 | 266.35 | 143.56 | 12.62 | 235.52 | PHASE |
| | | | | 19.41 | 14.11 | 8.15 | 1.38 | 2.71 | 1.88 | .88 | 1.68 | AMP |
| | | | | 138.45 | 338.27 | 41.63 | 319.87 | 278.25 | 145.85 | 58.87 | 238.75 | PHASE |
| | | | | 28.55 | 14.63 | 9.28 | 1.22 | 2.88 | 1.15 | .64 | 1.51 | AMP |
| | | | | 136.76 | 335.11 | 35.93 | 314.88 | 268.64 | 138.66 | 46.17 | 238.75 | PHASE |
| | | | | 22.31 | 15.63 | 11.88 | 1.22 | 2.86 | 1.26 | .45 | 1.71 | AMP |
| | | | | 139.67 | 339.75 | 42.99 | 316.78 | 268.76 | 144.77 | 56.82 | 249.64 | PHASE |
| | | | | 22.91 | 15.42 | 11.58 | 1.18 | 2.65 | 1.13 | .31 | 1.87 | AMP |
| | | | | 139.16 | 339.33 | 48.85 | 384.87 | 266.48 | 148.66 | 43.21 | 237.68 | PHASE |
| | | | | 23.97 | 15.66 | 12.45 | 1.86 | 2.68 | .99 | .39 | 2.18 | AMP |
| | | | | 138.68 | 337.74 | 37.86 | 386.11 | 265.24 | 148.42 | 354.98 | 238.19 | PHASE |
| | | | | 24.92 | 16.41 | 12.87 | 1.84 | 2.56 | .99 | .34 | 2.85 | AMP |
| | | | | 139.17 | 339.23 | 48.21 | 385.14 | 266.51 | 151.52 | 335.16 | 231.64 | PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------|-------|
| RUN NO 18 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 597 | 4.81 | 47.78 | 584 | 12.54 | 8.43 | 4.22 | 4.86 | 2.25 | 9.63 | 19.84 | 8.14 | AMP |
| 598 | 3.92 | 61.63 | 584 | 285.82 | 147.38 | 297.98 | 84.85 | 178.29 | 289.58 | 197.58 | 267.71 | PHASE |
| 599 | 2.72 | 67.72 | 584 | 15.84 | 11.72 | 7.71 | 7.13 | 1.71 | 18.62 | 24.84 | 9.67 | AMP |
| 600 | 2.72 | 67.72 | 584 | 295.68 | 153.64 | 387.81 | 89.83 | 253.86 | 287.43 | 218.65 | 275.14 | PHASE |
| 601 | .78 | 77.25 | 584 | 28.88 | 15.17 | 11.88 | 18.52 | 2.83 | 21.11 | 28.75 | 8.88 | AMP |
| 602 | 3.64 | 48.27 | 584 | 385.88 | 152.73 | 298.54 | 74.56 | 234.52 | 187.78 | 187.56 | 239.21 | PHASE |
| 603 | 3.24 | 42.98 | 585 | 26.21 | 17.86 | 14.87 | 14.85 | 2.35 | 23.98 | 29.41 | 8.46 | AMP |
| 604 | 3.83 | 49.98 | 584 | 316.52 | 157.27 | 298.82 | 72.86 | 298.35 | 288.41 | 288.18 | 229.66 | PHASE |
| 605 | 2.68 | 59.24 | 585 | 9.31 | 8.55 | 5.85 | 5.77 | .58 | 8.82 | 15.85 | 4.48 | AMP |
| 606 | 1.89 | 66.67 | 585 | 292.72 | 149.73 | 383.22 | 82.79 | 229.86 | 215.31 | 214.82 | 254.98 | PHASE |
| 607 | 1.21 | 76.78 | 584 | 11.36 | 18.76 | 7.31 | 7.68 | 2.68 | 18.27 | 17.76 | 4.44 | AMP |
| 608 | 2.28 | 32.84 | 588 | 295.27 | 148.23 | 292.18 | 63.79 | 253.35 | 175.18 | 188.31 | 223.89 | PHASE |
| 609 | 2.68 | 39.51 | 586 | 15.49 | 13.95 | 10.31 | 18.91 | 3.51 | 12.76 | 22.46 | 4.67 | AMP |
| 610 | 2.97 | 63.29 | 584 | 312.23 | 161.72 | 292.48 | 75.91 | 283.75 | 285.96 | 282.25 | 238.44 | PHASE |
| 611 | 2.68 | 78.52 | 583 | 28.14 | 15.28 | 13.28 | 13.48 | 4.18 | 13.88 | 24.77 | 5.27 | AMP |
| 612 | 1.88 | 88.86 | 585 | 319.74 | 165.11 | 284.89 | 68.21 | 281.55 | 215.68 | 198.24 | 217.25 | PHASE |
| 613 | 1.38 | 88.27 | 584 | 24.72 | 16.72 | 16.31 | 16.88 | 3.16 | 15.52 | 24.59 | 6.38 | AMP |
| | | | | 321.85 | 165.83 | 279.64 | 68.38 | 271.58 | 212.68 | 186.81 | 281.76 | PHASE |
| | | | | 29.62 | 17.42 | 18.77 | 17.82 | 3.45 | 17.83 | 23.85 | 6.67 | AMP |
| | | | | 327.16 | 169.19 | 281.77 | 61.57 | 268.85 | 221.95 | 191.14 | 198.32 | PHASE |
| | | | | 7.28 | 7.76 | 5.26 | 7.27 | 1.67 | 3.87 | 18.48 | 1.15 | AMP |
| | | | | 299.14 | 157.39 | 296.36 | 63.78 | 297.97 | 144.98 | 175.68 | 285.24 | PHASE |
| | | | | 18.98 | 18.63 | 7.59 | 18.58 | 3.57 | 5.68 | 13.98 | 1.64 | AMP |
| | | | | 315.98 | 163.46 | 276.26 | 51.78 | 263.87 | 175.75 | 162.83 | 163.23 | PHASE |
| | | | | 17.63 | 13.33 | 12.48 | 14.15 | 3.64 | 6.38 | 15.55 | 3.95 | AMP |
| | | | | 336.56 | 175.82 | 278.23 | 64.17 | 278.91 | 263.82 | 192.94 | 228.48 | PHASE |
| | | | | 22.23 | 13.92 | 15.39 | 16.87 | 3.82 | 7.21 | 13.36 | 4.75 | AMP |
| | | | | 339.76 | 179.58 | 274.46 | 63.98 | 268.77 | 263.58 | 198.15 | 213.42 | PHASE |
| | | | | 38.86 | 14.88 | 19.33 | 18.97 | 2.82 | 5.64 | 11.52 | 5.58 | AMP |
| | | | | 342.87 | 183.98 | 273.52 | 68.62 | 232.88 | 255.51 | 186.15 | 199.74 | PHASE |
| | | | | 34.57 | 16.17 | 22.83 | 28.61 | 3.92 | 5.34 | 11.87 | 5.98 | AMP |
| | | | | 344.83 | 188.47 | 276.67 | 63.88 | 233.12 | 274.94 | 182.84 | 212.49 | PHASE |

TABLE VIII.- Continued

(e) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 4.24 | 18.97 | 584 | 4.49 | 3.67 | .66 | 1.75 | 1.61 | 1.32 | .82 | 1.55 |
| | | | | 387.59 | 137.46 | 199.56 | 354.87 | 78.56 | 182.85 | 45.88 | 184.39 |
| 598 | 2.61 | 18.76 | 584 | 4.33 | 3.35 | .78 | 1.79 | 1.84 | 1.37 | .67 | 1.71 |
| | | | | 328.74 | 142.58 | 217.38 | 348.51 | 87.85 | 198.94 | 58.87 | 194.64 |
| 600 | .38 | 18.27 | 584 | 4.33 | 3.11 | .94 | 1.65 | 1.78 | 1.18 | .75 | 1.85 |
| | | | | 335.26 | 141.68 | 217.24 | 326.42 | 78.47 | 178.65 | 48.42 | 164.11 |
| 601 | -1.61 | 18.34 | 584 | 4.87 | 3.85 | 1.21 | 1.61 | 1.78 | .82 | .68 | 1.88 |
| | | | | 348.57 | 146.68 | 222.31 | 328.48 | 78.42 | 191.89 | 44.55 | 164.88 |
| 602 | 3.51 | 9.87 | 584 | 3.78 | 3.28 | .29 | 1.51 | 1.64 | 1.88 | .65 | 1.11 |
| | | | | 383.11 | 125.57 | 269.33 | 343.84 | 68.52 | 174.47 | 32.75 | 177.68 |
| 603 | 2.81 | 8.29 | 585 | 3.41 | 2.65 | .38 | 1.44 | 1.84 | .96 | .55 | 1.82 |
| | | | | 313.58 | 123.16 | 256.83 | 324.68 | 48.33 | 153.88 | 16.14 | 159.26 |
| 604 | .87 | 7.94 | 584 | 3.44 | 2.36 | .66 | 1.48 | 1.99 | 1.81 | .44 | 1.22 |
| | | | | 334.89 | 136.48 | 262.88 | 327.63 | 66.68 | 167.34 | 44.68 | 186.85 |
| 605 | -1.72 | 8.31 | 585 | 3.78 | 2.89 | .81 | 1.25 | 2.83 | .89 | .65 | .98 |
| | | | | 349.58 | 143.68 | 252.29 | 328.28 | 64.98 | 162.93 | 22.55 | 164.67 |
| 606 | -3.32 | 9.31 | 585 | 4.15 | 2.82 | 1.84 | 1.26 | 2.86 | .92 | .73 | 1.85 |
| | | | | 358.61 | 158.38 | 242.86 | 312.46 | 55.84 | 152.93 | 353.19 | 138.33 |
| 607 | -4.26 | 9.69 | 584 | 4.88 | 2.11 | 1.13 | 1.41 | 2.88 | .96 | .69 | 1.89 |
| | | | | 5.87 | 155.33 | 243.87 | 315.56 | 61.52 | 164.23 | 346.74 | 119.48 |
| 608 | 1.45 | 6.86 | 588 | 2.88 | 1.77 | .52 | 1.28 | 1.68 | .64 | .34 | .63 |
| | | | | 311.58 | 115.63 | 293.54 | 329.88 | 34.77 | 147.34 | 31.19 | 149.93 |
| 609 | -.24 | 6.44 | 586 | 2.88 | 1.41 | .68 | 1.89 | 1.84 | .79 | .24 | .68 |
| | | | | 338.75 | 125.38 | 268.72 | 317.12 | 38.63 | 147.48 | 3.52 | 141.81 |
| 610 | -2.38 | 7.37 | 584 | 3.35 | 1.35 | .83 | 1.11 | 1.85 | .81 | .58 | .59 |
| | | | | 355.53 | 151.51 | 265.47 | 328.83 | 49.86 | 167.48 | 358.96 | 145.66 |
| 611 | -3.81 | 7.66 | 583 | 3.88 | 1.38 | .92 | 1.18 | 1.78 | .84 | .45 | .68 |
| | | | | 5.22 | 167.77 | 258.36 | 323.37 | 46.55 | 171.93 | 343.24 | 125.31 |
| 612 | -5.88 | 9.81 | 585 | 4.91 | 1.67 | 1.21 | 1.21 | 1.84 | .93 | .63 | .81 |
| | | | | 14.27 | 178.67 | 247.48 | 317.34 | 58.38 | 188.98 | 332.31 | 184.32 |
| 613 | -6.64 | 18.16 | 584 | 5.48 | 1.86 | 1.36 | 1.21 | 1.87 | 1.88 | .67 | .89 |
| | | | | 18.84 | 184.23 | 249.84 | 323.55 | 56.76 | 186.47 | 338.61 | 184.58 |

TABLE VIII.- Continued

(e) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|--------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | -18.81 | 49.85 | 584 | 28.85 | 17.93 | 11.81 | 6.75 | 6.46 | 3.88 | 2.35 | 9.61 AMP |
| | | | | 132.65 | 325.18 | 38.55 | 189.96 | 328.97 | 26.77 | 271.67 | 182.65 PHASE |
| 598 | -7.52 | 51.37 | 584 | 28.37 | 18.48 | 11.34 | 6.59 | 6.58 | 2.87 | 2.13 | 9.68 AMP |
| | | | | 136.37 | 337.23 | 39.88 | 191.77 | 338.86 | 28.13 | 265.38 | 186.93 PHASE |
| 599 | -4.28 | 52.89 | 584 | 28.62 | 18.92 | 12.36 | 5.81 | 5.75 | 2.68 | 1.68 | 9.79 AMP |
| | | | | 137.26 | 338.11 | 28.96 | 176.15 | 312.45 | 8.85 | 254.81 | 78.75 PHASE |
| 601 | -1.31 | 53.31 | 584 | 29.68 | 19.48 | 12.55 | 5.18 | 5.25 | 2.12 | 1.41 | 9.81 AMP |
| | | | | 148.23 | 331.28 | 27.75 | 171.12 | 313.65 | 365.48 | 256.13 | 65.92 PHASE |
| 602 | -7.67 | 43.88 | 584 | 25.28 | 16.45 | 8.82 | 5.33 | 6.46 | 1.58 | 1.93 | 6.78 AMP |
| | | | | 132.39 | 334.47 | 35.78 | 186.28 | 298.85 | 358.98 | 258.29 | 99.37 PHASE |
| 603 | -5.17 | 41.82 | 585 | 24.89 | 16.26 | 9.23 | 5.87 | 6.73 | 1.48 | 1.88 | 5.44 AMP |
| | | | | 131.91 | 329.25 | 28.88 | 172.28 | 282.14 | 319.56 | 234.87 | 72.55 PHASE |
| 604 | -2.31 | 45.71 | 584 | 25.68 | 17.82 | 9.13 | 5.32 | 6.63 | 1.41 | 1.45 | 6.88 AMP |
| | | | | 138.18 | 336.82 | 28.67 | 188.41 | 294.94 | 338.31 | 244.69 | 93.17 PHASE |
| 605 | .52 | 45.25 | 585 | 25.78 | 17.38 | 9.68 | 4.59 | 6.59 | 1.56 | .99 | 5.12 AMP |
| | | | | 148.11 | 336.89 | 23.88 | 172.33 | 298.35 | 328.81 | 239.94 | 77.98 PHASE |
| 606 | 3.11 | 46.67 | 585 | 26.29 | 17.96 | 18.88 | 4.28 | 6.67 | 1.54 | .88 | 5.23 AMP |
| | | | | 148.42 | 333.36 | 16.98 | 168.19 | 275.15 | 386.27 | 214.85 | 56.69 PHASE |
| 607 | 4.68 | 48.25 | 584 | 24.26 | 18.59 | 18.12 | 4.14 | 6.68 | 1.23 | .71 | 5.24 AMP |
| | | | | 142.24 | 333.69 | 15.79 | 159.73 | 273.84 | 387.98 | 282.18 | 55.15 PHASE |
| 608 | -2.87 | 35.24 | 588 | 22.53 | 13.41 | 5.32 | 4.58 | 6.57 | .34 | .96 | 2.87 AMP |
| | | | | 133.32 | 333.38 | 18.57 | 183.63 | 265.86 | 383.19 | 238.32 | 68.48 PHASE |
| 609 | -1.48 | 35.56 | 586 | 23.85 | 14.88 | 6.19 | 4.64 | 6.55 | .55 | .69 | 2.83 AMP |
| | | | | 134.81 | 332.78 | 8.17 | 174.15 | 256.18 | 268.58 | 217.91 | 53.82 PHASE |
| 610 | 2.61 | 48.48 | 584 | 23.95 | 15.23 | 7.53 | 4.56 | 6.72 | .67 | .38 | 2.27 AMP |
| | | | | 141.23 | 339.21 | 19.81 | 179.84 | 266.92 | 319.85 | 222.89 | 71.28 PHASE |
| 611 | 5.22 | 48.71 | 583 | 24.26 | 15.42 | 8.86 | 4.42 | 6.58 | .51 | .23 | 2.52 AMP |
| | | | | 143.39 | 339.92 | 17.42 | 175.13 | 258.47 | 352.82 | 161.79 | 58.63 PHASE |
| 612 | 8.47 | 42.46 | 585 | 25.17 | 16.31 | 8.75 | 4.15 | 6.45 | .46 | .68 | 2.84 AMP |
| | | | | 145.76 | 339.98 | 16.54 | 163.51 | 257.71 | 8.31 | 139.14 | 49.59 PHASE |
| 613 | 9.65 | 44.52 | 584 | 26.82 | 17.28 | 9.11 | 4.19 | 6.58 | .64 | .58 | 2.73 AMP |
| | | | | 147.72 | 342.18 | 19.83 | 165.44 | 268.18 | 18.47 | 123.84 | 58.38 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | -15.49 | 28.88 | 584 | 7.72 | 5.58 | 5.71 | 2.48 | 2.74 | 2.71 | 8.26 | 1.88 AMP |
| | | | | 158.59 | 336.89 | 35.61 | 158.21 | 294.53 | 289.97 | 196.58 | 248.71 PHASE |
| 598 | -15.85 | 32.64 | 584 | 6.84 | 4.86 | 6.33 | 3.38 | 3.71 | 6.38 | 18.51 | 1.83 AMP |
| | | | | 157.82 | 337.42 | 27.82 | 128.49 | 382.34 | 282.72 | 289.88 | 257.33 PHASE |
| 600 | -13.83 | 34.81 | 584 | 5.12 | 4.15 | 7.44 | 4.52 | 3.69 | 7.52 | 12.19 | .43 AMP |
| | | | | 163.95 | 325.96 | 18.91 | 98.12 | 277.98 | 184.88 | 185.67 | 227.89 PHASE |
| 601 | -12.23 | 38.49 | 584 | 3.33 | 3.98 | 8.38 | 6.12 | 4.84 | 9.17 | 12.48 | .84 AMP |
| | | | | 174.35 | 323.46 | 4.87 | 87.43 | 287.88 | 281.88 | 198.79 | 215.39 PHASE |
| 602 | -13.31 | 24.48 | 584 | 7.23 | 4.78 | 4.64 | 2.43 | 3.47 | 3.19 | 7.85 | .59 AMP |
| | | | | 143.93 | 334.62 | 27.73 | 126.86 | 287.78 | 222.96 | 211.46 | 153.81 PHASE |
| 603 | -14.29 | 25.81 | 585 | 6.38 | 3.99 | 5.12 | 2.92 | 4.48 | 3.53 | 8.85 | .65 AMP |
| | | | | 145.57 | 328.14 | 6.88 | 94.31 | 267.65 | 177.95 | 178.79 | 158.92 PHASE |
| 604 | -14.28 | 34.87 | 584 | 4.98 | 3.55 | 5.72 | 4.39 | 5.88 | 4.74 | 18.81 | .91 AMP |
| | | | | 153.84 | 338.89 | 6.88 | 95.19 | 283.54 | 218.84 | 198.94 | 147.54 PHASE |
| 605 | -12.91 | 32.97 | 585 | 3.17 | 3.38 | 6.38 | 5.58 | 5.33 | 5.53 | 18.82 | 1.29 AMP |
| | | | | 159.76 | 325.84 | 356.11 | 88.39 | 278.28 | 221.64 | 194.45 | 153.34 PHASE |
| 606 | -11.26 | 36.18 | 585 | 1.75 | 3.43 | 7.26 | 6.63 | 5.82 | 6.57 | 18.69 | 1.42 AMP |
| | | | | 178.49 | 328.17 | 345.28 | 68.88 | 264.91 | 218.82 | 183.11 | 152.25 PHASE |
| 607 | -18.17 | 38.28 | 584 | .76 | 3.65 | 7.97 | 7.21 | 5.18 | 7.77 | 9.94 | 1.72 AMP |
| | | | | 236.74 | 317.71 | 348.99 | 69.81 | 263.22 | 224.52 | 187.11 | 158.54 PHASE |
| 608 | -12.18 | 18.83 | 588 | 6.46 | 3.53 | 3.89 | 2.26 | 3.93 | .85 | 4.78 | .33 AMP |
| | | | | 142.23 | 326.68 | 1.84 | 92.67 | 266.18 | 146.68 | 173.38 | 69.21 PHASE |
| 609 | -13.21 | 24.74 | 586 | 5.15 | 3.88 | 4.13 | 3.42 | 4.81 | 2.18 | 6.13 | .75 AMP |
| | | | | 142.22 | 319.69 | 358.27 | 69.51 | 253.14 | 188.61 | 159.52 | 88.68 PHASE |
| 610 | -13.11 | 24.28 | 584 | 3.12 | 3.15 | 5.28 | 5.81 | 4.96 | 3.86 | 6.88 | .98 AMP |
| | | | | 138.56 | 321.54 | 343.24 | 76.33 | 264.82 | 267.75 | 188.72 | 187.26 PHASE |
| 611 | -11.82 | 24.91 | 583 | 1.53 | 3.31 | 5.84 | 5.95 | 4.69 | 3.44 | 5.79 | 1.27 AMP |
| | | | | 138.39 | 328.52 | 339.97 | 73.71 | 254.78 | 264.84 | 193.12 | 185.16 PHASE |
| 612 | -18.16 | 38.64 | 585 | 1.38 | 3.86 | 7.85 | 7.58 | 4.54 | 2.86 | 5.83 | 1.66 AMP |
| | | | | 346.85 | 317.66 | 333.48 | 67.67 | 246.53 | 258.72 | 188.63 | 169.19 PHASE |
| 613 | -9.35 | 31.76 | 584 | 2.24 | 4.24 | 7.86 | 8.16 | 5.88 | 2.93 | 5.82 | 1.72 AMP |
| | | | | 341.62 | 315.78 | 332.57 | 69.82 | 246.72 | 276.16 | 176.96 | 188.86 PHASE |

TABLE VIII.- Continued

(e) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | 1.44 | 18.36 | 584 | 4.36 | 4.86 | .75 | 1.31 | 1.12 | 1.16 | .78 | .92 |
| | | | | 291.33 | 129.41 | 247.59 | 16.22 | 59.95 | 283.87 | 89.88 | 235.93 |
| 598 | .88 | 18.79 | 584 | 3.93 | 3.78 | .81 | 1.24 | 1.11 | 1.25 | .73 | 1.89 |
| | | | | 383.84 | 135.37 | 255.11 | 18.82 | 61.66 | 218.68 | 93.82 | 238.92 |
| 600 | -1.81 | 18.13 | 584 | 3.58 | 3.54 | .94 | 1.82 | 1.87 | 1.85 | .78 | 1.22 |
| | | | | 318.83 | 135.88 | 241.28 | 6.17 | 38.58 | 198.68 | 78.13 | 288.63 |
| 601 | -3.42 | 18.18 | 584 | 3.47 | 3.43 | 1.88 | .88 | 5.71 | 38.46 | .87 | 1.38 |
| | | | | 335.61 | 143.23 | 234.48 | 5.71 | 38.46 | 193.69 | 67.83 | 193.62 |
| 602 | .91 | 8.34 | 584 | 3.77 | 3.58 | .54 | 1.14 | 1.86 | .87 | .55 | .62 |
| | | | | 285.13 | 124.89 | 275.78 | 4.22 | 58.34 | 189.59 | 83.21 | 229.32 |
| 603 | -.48 | 7.97 | 585 | 3.17 | 3.12 | .58 | 1.17 | 1.13 | .81 | .58 | .52 |
| | | | | 292.65 | 122.62 | 262.24 | 358.53 | 28.94 | 159.84 | 58.48 | 284.13 |
| 604 | -2.86 | 7.66 | 584 | 2.77 | 2.85 | .65 | 1.85 | 1.28 | .83 | .55 | .69 |
| | | | | 314.45 | 136.83 | 262.39 | 2.21 | 42.37 | 175.94 | 87.74 | 225.38 |
| 605 | -3.58 | 7.56 | 585 | 2.67 | 2.63 | .69 | .89 | 1.28 | .75 | .56 | .44 |
| | | | | 332.88 | 145.87 | 248.84 | .48 | 39.58 | 164.84 | 64.78 | 288.21 |
| 606 | -4.98 | 7.53 | 585 | 2.87 | 2.61 | .78 | .83 | 1.24 | .74 | .55 | .36 |
| | | | | 347.14 | 158.81 | 226.86 | 348.62 | 29.66 | 147.28 | 34.53 | 159.44 |
| 607 | -5.64 | 7.33 | 584 | 3.22 | 2.78 | .74 | .88 | 1.24 | .75 | .58 | .32 |
| | | | | 356.73 | 156.79 | 228.82 | 346.84 | 33.52 | 153.88 | 34.94 | 148.16 |
| 608 | -.76 | 5.62 | 588 | 2.69 | 2.19 | .48 | 1.84 | 1.85 | .46 | .32 | .23 |
| | | | | 289.88 | 121.51 | 278.83 | 344.85 | 23.33 | 156.12 | 51.44 | 178.77 |
| 609 | -2.21 | 5.78 | 586 | 2.27 | 1.92 | .54 | .95 | 1.13 | .61 | .21 | .21 |
| | | | | 383.18 | 132.73 | 251.97 | 338.73 | 15.91 | 143.46 | 42.24 | 172.51 |
| 610 | -4.88 | 6.35 | 584 | 2.36 | 1.96 | .65 | .88 | 1.18 | .62 | .24 | .21 |
| | | | | 348.67 | 156.25 | 243.91 | 349.87 | 33.37 | 154.22 | 24.74 | 146.88 |
| 611 | -5.25 | 6.09 | 583 | 2.69 | 2.82 | .69 | .85 | 1.18 | .61 | .21 | .21 |
| | | | | 356.99 | 169.59 | 231.91 | 341.15 | 29.17 | 155.93 | 15.85 | 131.94 |
| 612 | -6.91 | 7.19 | 585 | 3.51 | 2.37 | .83 | .88 | 1.18 | .62 | .31 | .27 |
| | | | | 11.65 | 177.93 | 217.38 | 332.68 | 29.42 | 158.69 | 337.15 | 185.59 |
| 613 | -7.61 | 7.91 | 584 | 3.98 | 2.58 | .88 | .79 | 1.19 | .67 | .35 | .32 |
| | | | | 17.88 | 182.31 | 217.34 | 338.31 | 35.82 | 162.41 | 336.25 | 95.72 |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|-------|--------|--------|--------|--------|--------|--------|
| RUN NO 18 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 597 | -3.94 | 12.88 | 584 | 3.16 | 2.26 | 1.86 | 2.65 | 2.72 | 1.47 | .11 | 2.86 |
| | | | | 138.75 | 2.82 | 239.66 | 173.43 | 271.57 | 2.43 | 213.97 | 388.66 |
| 598 | -2.33 | 12.48 | 584 | 2.27 | 2.13 | .92 | 3.87 | 3.38 | 1.52 | .86 | 2.79 |
| | | | | 166.23 | 17.98 | 224.21 | 165.22 | 281.86 | 22.18 | 15.36 | 389.62 |
| 600 | -.36 | 15.81 | 584 | 3.18 | 2.36 | .73 | 3.16 | 3.31 | 1.38 | .28 | 2.92 |
| | | | | 183.71 | 16.96 | 188.37 | 141.67 | 263.78 | 355.17 | 279.82 | 274.16 |
| 601 | 1.51 | 15.72 | 584 | 4.31 | 2.71 | 1.81 | 3.23 | 3.21 | 1.82 | .37 | 2.72 |
| | | | | 194.42 | 22.58 | 153.73 | 138.98 | 269.72 | .31 | 388.46 | 273.68 |
| 602 | -2.89 | 9.58 | 584 | 1.77 | 1.29 | 1.58 | 2.18 | 2.45 | .99 | .47 | 2.85 |
| | | | | 185.28 | 5.64 | 193.38 | 165.23 | 268.29 | 347.17 | 147.68 | 381.79 |
| 603 | -1.47 | 8.78 | 585 | 1.89 | 1.38 | 1.56 | 2.23 | 2.85 | .99 | .36 | 1.68 |
| | | | | 139.85 | 24.38 | 178.88 | 144.77 | 237.96 | 329.36 | 96.34 | 281.87 |
| 604 | .19 | 18.81 | 584 | 1.62 | 1.59 | 1.69 | 2.43 | 3.12 | 1.15 | .14 | 1.72 |
| | | | | 187.26 | 41.91 | 166.87 | 144.23 | 256.48 | 339.38 | 78.82 | 382.59 |
| 605 | 1.85 | 11.84 | 585 | 2.49 | 1.88 | 1.84 | 2.42 | 3.22 | .89 | .31 | 1.57 |
| | | | | 288.82 | 45.36 | 151.88 | 137.93 | 255.78 | 343.31 | 177.13 | 285.93 |
| 606 | 3.26 | 11.88 | 585 | 3.49 | 2.36 | 2.83 | 2.54 | 3.22 | .95 | .41 | 1.83 |
| | | | | 216.57 | 44.87 | 133.58 | 131.26 | 246.54 | 339.63 | 149.86 | 266.62 |
| 607 | 4.15 | 12.79 | 584 | 4.35 | 2.53 | 2.29 | 2.74 | 3.31 | .98 | .32 | 2.88 |
| | | | | 226.24 | 46.37 | 123.92 | 136.91 | 258.32 | 348.33 | 119.73 | 264.85 |
| 608 | -.58 | 7.52 | 588 | .78 | 1.15 | 2.88 | 1.61 | 2.42 | .78 | .25 | .76 |
| | | | | 36.37 | 55.91 | 168.91 | 146.77 | 221.71 | 328.95 | 49.21 | 284.62 |
| 609 | 1.82 | 9.45 | 586 | .51 | 1.57 | 2.86 | 1.78 | 2.97 | .87 | .26 | .79 |
| | | | | 246.28 | 56.76 | 142.75 | 133.82 | 217.57 | 338.87 | 44.88 | 279.33 |
| 610 | 2.78 | 9.89 | 584 | 1.93 | 1.99 | 2.38 | 1.94 | 2.93 | .86 | .28 | 1.96 |
| | | | | 232.35 | 62.82 | 142.87 | 147.38 | 234.64 | 357.92 | 138.75 | 289.66 |
| 611 | 4.16 | 18.89 | 583 | 3.29 | 2.39 | 2.39 | 2.88 | 2.72 | .94 | .19 | 1.16 |
| | | | | 232.29 | 61.62 | 138.28 | 147.82 | 232.66 | 359.29 | 183.45 | 275.48 |
| 612 | 6.81 | 12.15 | 585 | 5.21 | 2.66 | 2.68 | 2.19 | 2.83 | 1.13 | .23 | 1.45 |
| | | | | 231.88 | 56.75 | 111.86 | 143.18 | 235.93 | 4.24 | 131.48 | 262.21 |
| 613 | 6.69 | 13.54 | 584 | 6.84 | 2.96 | 3.84 | 2.22 | 2.88 | 1.25 | .38 | 1.58 |
| | | | | 231.85 | 57.46 | 189.11 | 149.36 | 239.55 | 7.31 | 174.28 | 264.76 |

TABLE VIII.- Continued

(f) $\mu = 0.40$; $M_T = 0.65$

| PT. | A1 | B1 | THETA | CL/SIGMA | CU/SIGMA | CV/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 653 | .1 | 2.7 | 1.9 | .01955 | .00271 | .00139 |
| 654 | -.0 | 4.0 | 3.9 | .03411 | .00252 | .00152 |
| 655 | -.5 | 5.4 | 5.9 | .04652 | .00223 | .00164 |
| 656 | -.8 | 5.9 | 6.9 | .05336 | .00207 | .00204 |
| 657 | -1.1 | 6.4 | 7.8 | .05972 | .00188 | .00223 |
| 658 | -1.3 | 7.1 | 8.9 | .06577 | .00169 | .00262 |
| 659 | .7 | 2.6 | 3.8 | .01228 | .00171 | .00171 |
| 660 | -.1 | 3.9 | 5.9 | .02463 | .00031 | .00221 |
| 661 | -.5 | 5.2 | 7.8 | .03599 | -.00095 | .00287 |
| 662 | -1.1 | 6.4 | 9.8 | .04927 | -.00247 | .00361 |
| 663 | -1.6 | 7.8 | 11.9 | .06120 | -.00398 | .00458 |
| 664 | -1.9 | 8.1 | 12.8 | .06756 | -.00457 | .00498 |
| 665 | -2.4 | 8.8 | 13.8 | .07253 | -.00542 | .00556 |
| 666 | .8 | 2.8 | 5.9 | .00381 | .00255 | .00137 |
| 667 | .0 | 4.4 | 7.9 | .01432 | .00057 | .00215 |
| 668 | -.4 | 5.8 | 9.8 | .02518 | -.00169 | .00322 |
| 669 | -1.0 | 6.7 | 11.8 | .03941 | -.00449 | .00433 |
| 670 | -1.5 | 7.5 | 13.8 | .05232 | -.00697 | .00560 |
| 671 | -2.3 | 8.8 | 16.0 | .06535 | -.00980 | .00709 |
| 672 | -2.7 | 9.2 | 16.9 | .07184 | -.01116 | .00790 |
| 673 | .6 | 4.5 | 9.8 | .00812 | .00164 | .00177 |
| 674 | -.6 | 5.5 | 11.8 | .01913 | -.00157 | .00305 |
| 675 | -1.1 | 6.8 | 13.8 | .03112 | -.00518 | .00453 |
| 676 | -1.6 | 8.1 | 15.9 | .04329 | -.00905 | .00637 |
| 677 | -2.2 | 8.9 | 17.6 | .05493 | -.01241 | .00803 |
| 678 | -2.6 | 9.4 | 18.8 | .06242 | -.01463 | .00918 |

TABLE VIII.- Continued

(f) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 2P | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 39.77 | 38.85 | 615 | 13.46 | 18.65 | 11.34 | 6.97 | 9.88 | 2.69 | 3.86 | 6.82 AMP |
| | | | | 154.28 | 331.55 | 78.74 | 3.86 | 123.65 | 7.86 | 243.13 | 85.11 PHASE |
| 654 | 41.48 | 37.89 | 615 | 14.87 | 18.69 | 11.18 | 7.19 | 9.69 | 2.58 | 2.51 | 5.99 AMP |
| | | | | 149.89 | 321.22 | 53.32 | 343.58 | 181.57 | 338.52 | 284.75 | 49.86 PHASE |
| 655 | 42.83 | 38.79 | 615 | 14.53 | 18.68 | 18.75 | 7.38 | 9.98 | 2.75 | 2.34 | 5.98 AMP |
| | | | | 158.81 | 326.87 | 57.19 | 352.38 | 116.68 | 346.98 | 218.93 | 63.66 PHASE |
| 656 | 43.53 | 39.19 | 614 | 14.78 | 18.54 | 18.43 | 7.11 | 9.76 | 2.67 | 2.89 | 5.48 AMP |
| | | | | 158.48 | 329.54 | 59.73 | 356.59 | 127.99 | 357.42 | 218.35 | 71.92 PHASE |
| 657 | 44.33 | 37.74 | 615 | 14.55 | 18.37 | 9.98 | 6.88 | 9.62 | 2.71 | 1.85 | 4.87 AMP |
| | | | | 143.73 | 316.42 | 48.14 | 338.13 | 97.64 | 324.99 | 175.87 | 21.78 PHASE |
| 658 | 45.85 | 37.53 | 615 | 14.78 | 18.38 | 9.78 | 6.96 | 9.42 | 2.71 | 1.68 | 4.54 AMP |
| | | | | 142.21 | 317.18 | 36.68 | 326.48 | 188.59 | 325.45 | 167.65 | 18.95 PHASE |
| 659 | 48.88 | 27.31 | 617 | 12.38 | 8.66 | 8.28 | 4.54 | 8.52 | 2.88 | 2.85 | 3.17 AMP |
| | | | | 155.18 | 329.58 | 45.38 | 343.34 | 81.87 | 333.97 | 239.19 | 38.23 PHASE |
| 660 | 41.66 | 28.86 | 616 | 12.58 | 8.66 | 8.42 | 4.94 | 8.33 | 2.45 | 1.83 | 3.18 AMP |
| | | | | 158.53 | 324.33 | 38.82 | 325.55 | 78.71 | 314.13 | 216.81 | 18.85 PHASE |
| 661 | 43.15 | 28.89 | 616 | 12.98 | 8.95 | 8.48 | 5.86 | 8.64 | 2.66 | 1.72 | 2.63 AMP |
| | | | | 153.55 | 335.89 | 48.71 | 344.58 | 96.26 | 337.83 | 251.38 | 53.28 PHASE |
| 662 | 44.68 | 28.38 | 616 | 13.88 | 8.98 | 8.41 | 5.26 | 8.54 | 2.79 | 1.58 | 2.31 AMP |
| | | | | 146.37 | 327.18 | 25.38 | 327.49 | 76.98 | 313.73 | 221.87 | 28.43 PHASE |
| 663 | 46.32 | 28.22 | 616 | 13.27 | 8.76 | 8.88 | 5.25 | 8.29 | 3.83 | 1.38 | 2.17 AMP |
| | | | | 139.11 | 322.19 | 18.57 | 318.76 | 61.85 | 388.28 | 196.69 | 342.84 PHASE |
| 664 | 47.89 | 29.86 | 617 | 13.35 | 8.85 | 8.88 | 5.29 | 8.33 | 2.91 | 1.28 | 2.17 AMP |
| | | | | 148.66 | 328.35 | 18.93 | 328.48 | 88.25 | 323.28 | 212.81 | 8.61 PHASE |
| 665 | 47.79 | 28.43 | 615 | 13.34 | 9.88 | 7.64 | 5.85 | 8.31 | 3.15 | 1.13 | 2.18 AMP |
| | | | | 139.28 | 329.94 | 16.81 | 328.92 | 81.99 | 327.97 | 218.68 | 3.68 PHASE |
| 666 | 48.42 | 22.81 | 616 | 11.88 | 7.23 | 4.75 | 2.81 | 6.89 | 1.79 | 1.51 | 1.62 AMP |
| | | | | 158.95 | 332.26 | 38.85 | 347.93 | 69.87 | 328.69 | 248.38 | 22.55 PHASE |
| 667 | 41.96 | 22.52 | 616 | 11.22 | 7.37 | 4.89 | 3.18 | 6.68 | 1.65 | 1.48 | 1.39 AMP |
| | | | | 159.52 | 343.13 | 35.84 | 3.81 | 93.14 | 345.86 | 269.62 | 57.92 PHASE |
| 668 | 43.58 | 22.67 | 616 | 11.35 | 7.32 | 5.28 | 3.71 | 6.78 | 1.65 | 1.82 | 1.35 AMP |
| | | | | 153.51 | 338.81 | 24.72 | 351.57 | 78.78 | 322.41 | 246.58 | 42.62 PHASE |
| 669 | 45.33 | 22.62 | 616 | 11.39 | 7.43 | 5.62 | 4.15 | 7.87 | 1.98 | 1.18 | 1.46 AMP |
| | | | | 144.88 | 329.91 | 8.35 | 329.18 | 53.88 | 297.74 | 288.68 | 352.38 PHASE |
| 670 | 46.96 | 23.81 | 616 | 11.44 | 7.79 | 5.68 | 4.37 | 6.68 | 2.85 | 1.18 | 1.63 AMP |
| | | | | 145.29 | 341.82 | 17.84 | 347.38 | 78.25 | 325.49 | 224.88 | 17.37 PHASE |
| 671 | 48.75 | 22.98 | 616 | 11.53 | 7.96 | 5.48 | 4.68 | 6.68 | 2.88 | .98 | 1.66 AMP |
| | | | | 133.18 | 333.85 | 354.18 | 323.58 | 58.45 | 297.87 | 188.12 | 343.41 PHASE |
| 672 | 49.63 | 23.84 | 616 | 11.43 | 7.96 | 5.43 | 4.69 | 6.83 | 1.93 | .76 | 1.88 AMP |
| | | | | 138.64 | 338.88 | 355.12 | 328.67 | 66.54 | 311.79 | 198.25 | 354.83 PHASE |
| 673 | 42.47 | 19.23 | 616 | 18.39 | 6.38 | 3.56 | 2.33 | 4.48 | .78 | .68 | .84 AMP |
| | | | | 157.25 | 332.84 | 1.95 | 347.97 | 66.88 | 381.33 | 235.31 | 355.76 PHASE |
| 674 | 44.12 | 18.58 | 616 | 9.94 | 6.44 | 3.82 | 2.86 | 4.49 | .88 | .48 | .63 AMP |
| | | | | 154.32 | 337.37 | 7.88 | 351.61 | 73.76 | 297.59 | 258.63 | 27.49 PHASE |
| 675 | 45.85 | 18.68 | 615 | 18.22 | 6.55 | 3.95 | 3.22 | 4.88 | 1.82 | .46 | .47 AMP |
| | | | | 151.16 | 344.19 | 13.25 | .31 | 81.58 | 327.88 | 226.61 | 2.75 PHASE |
| 676 | 47.78 | 19.16 | 616 | 18.39 | 6.75 | 3.98 | 3.78 | 5.17 | .87 | .59 | .51 AMP |
| | | | | 136.34 | 332.89 | 346.13 | 329.26 | 48.71 | 295.18 | 187.12 | 328.78 PHASE |
| 677 | 49.31 | 19.86 | 616 | 18.58 | 7.88 | 3.92 | 4.17 | 5.38 | .87 | .56 | .61 AMP |
| | | | | 129.42 | 337.86 | 343.38 | 334.68 | 59.98 | 293.88 | 179.65 | 348.28 PHASE |
| 678 | 58.24 | 19.43 | 616 | 18.63 | 7.16 | 3.97 | 4.49 | 5.41 | .78 | .47 | 1.82 AMP |
| | | | | 121.82 | 333.61 | 331.94 | 324.83 | 52.76 | 285.28 | 162.31 | 344.19 PHASE |



TABLE VIII.- Continued

(f) Continued

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 53.89 | 55.99 | 615 | 13.85 | 18.37 | 7.65 | 4.38 | 4.26 | 13.98 | 9.56 | 3.21 |
| | | | | 269.78 | 146.71 | 283.67 | 94.82 | 85.29 | 136.79 | 154.18 | 143.48 |
| 654 | 51.51 | 64.68 | 615 | 17.88 | 15.96 | 12.46 | 4.72 | 3.46 | 28.88 | 12.98 | 2.59 |
| | | | | 284.48 | 143.76 | 276.74 | 66.99 | 51.31 | 112.38 | 121.83 | 133.71 |
| 655 | 49.86 | 72.13 | 615 | 21.31 | 21.84 | 16.85 | 6.36 | 2.86 | 23.12 | 15.64 | 2.72 |
| | | | | 384.65 | 153.97 | 279.12 | 78.88 | 38.54 | 138.18 | 143.12 | 154.44 |
| 656 | 48.96 | 79.23 | 614 | 24.33 | 23.68 | 19.17 | 7.68 | 2.79 | 23.94 | 15.97 | 2.37 |
| | | | | 315.33 | 159.71 | 282.82 | 76.16 | 28.98 | 153.81 | 157.95 | 167.65 |
| 657 | 48.87 | 79.55 | 615 | 27.48 | 25.49 | 21.47 | 8.24 | 2.79 | 23.52 | 16.45 | 2.88 |
| | | | | 316.28 | 158.52 | 262.53 | 48.33 | 335.44 | 124.86 | 121.25 | 132.69 |
| 658 | 47.29 | 84.82 | 615 | 31.98 | 27.58 | 24.83 | 8.97 | 3.51 | 25.42 | 17.55 | 2.98 |
| | | | | 323.48 | 153.18 | 261.99 | 46.93 | 325.41 | 132.81 | 124.98 | 143.12 |
| 659 | 51.83 | 44.78 | 617 | 11.26 | 18.77 | 9.84 | 5.52 | 2.54 | 18.86 | 6.65 | 1.92 |
| | | | | 268.67 | 137.65 | 269.32 | 75.32 | 4.48 | 121.91 | 119.43 | 128.26 |
| 660 | 51.28 | 52.85 | 616 | 12.78 | 15.54 | 13.16 | 6.86 | 1.44 | 11.91 | 8.19 | 1.94 |
| | | | | 283.54 | 139.57 | 259.28 | 58.33 | 317.71 | 188.73 | 99.21 | 98.74 |
| 661 | 51.88 | 62.58 | 616 | 16.94 | 19.41 | 17.34 | 8.49 | 3.41 | 11.96 | 9.48 | 2.88 |
| | | | | 313.74 | 156.64 | 269.88 | 66.98 | 313.92 | 146.11 | 134.16 | 153.25 |
| 662 | 52.12 | 71.88 | 616 | 23.48 | 23.46 | 22.62 | 11.88 | 5.23 | 12.53 | 11.13 | 2.38 |
| | | | | 325.93 | 153.98 | 254.53 | 51.82 | 291.89 | 136.88 | 118.36 | 145.12 |
| 663 | 52.18 | 81.82 | 616 | 34.26 | 26.79 | 28.33 | 12.96 | 4.88 | 14.48 | 11.77 | 2.58 |
| | | | | 333.64 | 153.68 | 245.69 | 48.97 | 284.98 | 132.74 | 184.83 | 131.62 |
| 664 | 52.84 | 86.59 | 617 | 38.74 | 28.19 | 31.11 | 13.78 | 4.31 | 15.86 | 11.73 | 3.83 |
| | | | | 342.28 | 162.31 | 256.33 | 56.33 | 298.81 | 159.86 | 133.71 | 162.21 |
| 665 | 51.74 | 92.72 | 615 | 43.86 | 29.21 | 34.34 | 14.59 | 3.92 | 15.98 | 11.94 | 2.81 |
| | | | | 344.54 | 167.78 | 258.76 | 58.43 | 295.92 | 168.19 | 138.16 | 168.23 |
| 666 | 48.88 | 31.49 | 616 | 9.89 | 7.87 | 7.88 | 5.13 | 2.74 | 2.72 | 3.26 | 1.47 |
| | | | | 245.33 | 143.65 | 268.21 | 88.73 | 328.28 | 92.28 | 97.97 | 118.78 |
| 667 | 49.32 | 33.61 | 616 | 8.69 | 18.82 | 18.28 | 5.38 | 2.11 | 3.43 | 3.76 | 1.11 |
| | | | | 272.58 | 168.11 | 278.84 | 85.23 | 318.16 | 133.77 | 124.88 | 157.93 |
| 668 | 51.18 | 44.52 | 616 | 11.91 | 14.38 | 13.33 | 8.87 | 3.86 | 6.61 | 5.12 | 1.25 |
| | | | | 389.78 | 164.73 | 257.88 | 51.48 | 272.53 | 132.37 | 111.14 | 147.85 |
| 669 | 52.95 | 58.86 | 616 | 19.97 | 18.44 | 19.92 | 11.11 | 4.77 | 6.86 | 6.34 | 1.86 |
| | | | | 332.65 | 168.58 | 238.14 | 39.16 | 257.88 | 154.83 | 98.75 | 138.66 |
| 670 | 54.52 | 79.64 | 616 | 31.12 | 21.14 | 26.39 | 13.76 | 4.98 | 6.74 | 6.36 | 1.64 |
| | | | | 358.43 | 176.92 | 253.88 | 62.85 | 267.29 | 197.26 | 136.93 | 181.57 |
| 671 | 55.95 | 182.81 | 616 | 46.47 | 23.98 | 34.88 | 15.83 | 4.37 | 5.45 | 7.22 | 2.15 |
| | | | | 351.85 | 174.84 | 248.98 | 42.87 | 248.67 | 154.84 | 186.68 | 164.92 |
| 672 | 56.28 | 114.59 | 616 | 54.77 | 24.24 | 37.73 | 16.27 | 5.48 | 4.24 | 7.88 | 2.38 |
| | | | | 356.55 | 181.54 | 247.52 | 49.21 | 237.18 | 162.89 | 114.86 | 189.82 |
| 673 | 47.85 | 26.28 | 616 | 6.66 | 6.87 | 6.86 | 3.93 | 1.91 | 5.92 | 2.77 | .77 |
| | | | | 245.56 | 178.52 | 248.23 | 74.31 | 252.16 | 48.75 | 78.86 | 95.87 |
| 674 | 49.57 | 35.52 | 616 | 7.87 | 18.82 | 9.34 | 5.54 | 2.62 | 9.18 | 3.94 | .67 |
| | | | | 296.45 | 182.29 | 241.58 | 48.19 | 237.41 | 188.62 | 86.31 | 114.48 |
| 675 | 52.89 | 49.19 | 615 | 14.28 | 14.86 | 15.28 | 9.25 | 3.86 | 6.73 | 4.28 | .97 |
| | | | | 344.88 | 192.15 | 246.51 | 61.58 | 265.13 | 167.82 | 127.87 | 151.83 |
| 676 | 55.12 | 75.69 | 616 | 29.72 | 17.95 | 21.92 | 11.94 | 5.62 | 3.65 | 3.68 | 1.27 |
| | | | | 353.42 | 185.99 | 229.36 | 38.76 | 228.52 | 233.91 | 86.25 | 143.92 |
| 677 | 57.53 | 188.22 | 616 | 45.85 | 21.12 | 28.66 | 13.63 | 7.71 | 4.54 | 4.29 | 1.43 |
| | | | | .99 | 196.71 | 238.26 | 47.32 | 224.89 | 312.99 | 98.88 | 187.97 |
| 678 | 58.62 | 112.98 | 616 | 57.72 | 23.22 | 33.81 | 13.86 | 8.72 | 4.49 | 5.85 | 1.55 |
| | | | | 2.84 | 196.76 | 236.84 | 37.15 | 212.16 | 333.34 | 88.86 | 181.68 |

TABLE VIII.- Continued

(f) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------------|
| RUN NO | | 28 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 4.64 | 12.21 | 615 | 5.83 | 4.33 | 1.36 | 2.74 | 2.38 | 1.78 | .85 | 1.53 AMP |
| | | | | 298.79 | 147.87 | 127.52 | 344.65 | 88.86 | 191.85 | 47.19 | 124.88 PHASE |
| 654 | 2.36 | 11.95 | 615 | 4.29 | 3.88 | 1.15 | 2.77 | 2.82 | 1.78 | .83 | 1.37 AMP |
| | | | | 312.88 | 142.99 | 128.21 | 321.81 | 53.14 | 171.57 | 31.64 | 96.78 PHASE |
| 655 | .16 | 12.73 | 615 | 4.14 | 3.58 | .88 | 2.91 | 3.31 | 1.52 | .78 | 1.26 AMP |
| | | | | 331.37 | 154.33 | 145.42 | 324.12 | 69.45 | 198.48 | 68.89 | 118.98 PHASE |
| 656 | -1.85 | 13.38 | 614 | 4.23 | 3.42 | .71 | 2.92 | 3.56 | 1.42 | .81 | 1.17 AMP |
| | | | | 341.59 | 161.87 | 169.76 | 326.87 | 84.21 | 204.13 | 82.56 | 119.14 PHASE |
| 657 | -2.25 | 13.38 | 615 | 4.46 | 3.33 | .69 | 2.98 | 3.71 | 1.27 | .73 | .98 AMP |
| | | | | 346.89 | 151.38 | 171.47 | 382.98 | 54.76 | 169.22 | 31.58 | 63.92 PHASE |
| 658 | -3.48 | 13.82 | 615 | 4.87 | 3.29 | .85 | 2.96 | 4.88 | 1.22 | .61 | .84 AMP |
| | | | | 353.85 | 155.88 | 192.71 | 381.86 | 68.76 | 162.84 | 48.82 | 59.78 PHASE |
| 659 | 3.74 | 9.73 | 617 | 4.29 | 3.46 | .77 | 2.48 | 2.12 | 1.11 | .56 | .59 AMP |
| | | | | 288.26 | 122.84 | 27.29 | 316.84 | 43.16 | 149.48 | 346.48 | 71.45 PHASE |
| 660 | 1.69 | 9.63 | 616 | 3.52 | 2.73 | .65 | 2.51 | 2.43 | .99 | .61 | .61 AMP |
| | | | | 291.41 | 124.27 | 346.42 | 388.28 | 29.38 | 126.21 | 345.99 | 57.66 PHASE |
| 661 | -.28 | 9.38 | 616 | 3.88 | 2.32 | .77 | 2.45 | 2.77 | .95 | .61 | .64 AMP |
| | | | | 315.54 | 148.99 | 348.68 | 319.82 | 58.58 | 159.68 | 42.18 | 123.92 PHASE |
| 662 | -2.54 | 9.65 | 616 | 2.99 | 2.81 | .98 | 2.51 | 3.87 | .97 | .62 | .44 AMP |
| | | | | 337.82 | 143.15 | 382.42 | 382.19 | 45.88 | 139.73 | 356.92 | 77.15 PHASE |
| 663 | -4.89 | 18.78 | 616 | 3.78 | 1.97 | 1.29 | 2.78 | 3.25 | 1.83 | .62 | .44 AMP |
| | | | | 357.72 | 158.47 | 274.72 | 291.68 | 48.43 | 124.38 | 293.87 | 9.68 PHASE |
| 664 | -6.81 | 11.71 | 617 | 4.29 | 2.12 | 1.47 | 2.79 | 3.49 | 1.19 | .65 | .53 AMP |
| | | | | 9.47 | 162.64 | 281.83 | 386.37 | 63.12 | 148.82 | 382.75 | 31.77 PHASE |
| 665 | -7.88 | 12.88 | 615 | 4.88 | 2.28 | 1.71 | 2.67 | 3.53 | 1.38 | .64 | .58 AMP |
| | | | | 15.78 | 178.34 | 283.81 | 318.78 | 69.61 | 153.58 | 292.85 | 39.17 PHASE |
| 666 | 2.89 | 7.68 | 616 | 3.82 | 2.22 | 1.27 | 1.84 | 2.86 | .93 | .28 | .42 AMP |
| | | | | 266.36 | 115.66 | 334.91 | 312.86 | 24.87 | 124.23 | 331.56 | 97.45 PHASE |
| 667 | .98 | 7.35 | 616 | 3.87 | 1.52 | 1.46 | 1.85 | 2.82 | .78 | .21 | .41 AMP |
| | | | | 279.56 | 138.93 | 335.13 | 325.85 | 44.88 | 145.49 | 39.95 | 155.42 PHASE |
| 668 | -1.85 | 7.15 | 616 | 2.39 | 1.89 | 1.48 | 1.73 | 2.38 | .75 | .35 | .55 AMP |
| | | | | 296.89 | 142.18 | 312.61 | 389.78 | 34.82 | 146.75 | 34.59 | 125.86 PHASE |
| 669 | -3.36 | 7.18 | 616 | 2.18 | .96 | 1.64 | 1.85 | 2.58 | .75 | .48 | .46 AMP |
| | | | | 327.98 | 154.25 | 288.88 | 293.26 | 23.59 | 123.82 | 297.92 | 78.33 PHASE |
| 670 | -5.58 | 8.87 | 616 | 2.93 | 1.19 | 1.99 | 2.82 | 2.48 | .82 | .69 | .48 AMP |
| | | | | 1.18 | 183.88 | 298.81 | 315.27 | 68.82 | 171.63 | 386.66 | 73.42 PHASE |
| 671 | -8.86 | 9.63 | 616 | 4.19 | 1.52 | 2.42 | 2.89 | 2.67 | 1.12 | .79 | .68 AMP |
| | | | | 14.68 | 185.42 | 274.22 | 296.82 | 44.68 | 153.24 | 274.68 | 38.66 PHASE |
| 672 | -9.27 | 18.93 | 616 | 5.88 | 1.64 | 2.62 | 2.85 | 2.63 | 1.28 | .87 | .63 AMP |
| | | | | 21.87 | 198.98 | 277.66 | 387.23 | 55.86 | 169.31 | 288.92 | 44.51 PHASE |
| 673 | -.85 | 7.31 | 616 | 2.61 | .54 | 1.92 | 1.21 | 1.91 | 1.88 | .46 | .53 AMP |
| | | | | 258.87 | 124.71 | 318.31 | 388.51 | 19.88 | 187.52 | 45.93 | 85.79 PHASE |
| 674 | -2.81 | 6.83 | 616 | 1.69 | .37 | 1.88 | 1.28 | 2.26 | .78 | .56 | .58 AMP |
| | | | | 267.25 | 194.18 | 386.97 | 386.58 | 28.32 | 117.11 | 68.91 | 99.13 PHASE |
| 675 | -4.85 | 6.43 | 615 | 1.18 | .68 | 2.83 | 1.38 | 2.38 | .61 | .24 | .34 AMP |
| | | | | 316.88 | 238.88 | 387.23 | 316.64 | 58.93 | 126.93 | 79.49 | 97.56 PHASE |
| 676 | -6.45 | 5.98 | 616 | 1.92 | 1.86 | 2.39 | 1.52 | 1.98 | .46 | .52 | .48 AMP |
| | | | | 6.21 | 217.28 | 281.89 | 292.67 | 18.68 | 136.43 | 297.82 | 32.11 PHASE |
| 677 | -8.59 | 7.63 | 616 | 3.34 | 1.38 | 2.74 | 1.49 | 1.84 | .73 | .76 | .45 AMP |
| | | | | 23.15 | 218.12 | 279.74 | 299.77 | 32.82 | 179.38 | 381.76 | 37.69 PHASE |
| 678 | -9.94 | 9.35 | 616 | 4.45 | 1.64 | 3.83 | 1.55 | 1.89 | .91 | .93 | .68 AMP |
| | | | | 25.76 | 218.43 | 268.33 | 296.88 | 26.92 | 174.43 | 294.58 | 31.86 PHASE |

TABLE VIII.- Continued

(f) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|--------|-------|---------|--------|--------|-------|--------|--------|--------|--------|--------|-------|
| PT NO | RUN NO | 2θ | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 22.77 | 38.87 | 615 | 19.47 | 15.56 | 12.61 | 6.45 | 4.58 | .95 | .47 | 2.18 | AMP |
| 654 | 24.45 | 39.52 | 615 | 147.31 | 334.39 | 68.87 | 355.38 | 137.83 | 16.59 | 292.48 | 262.93 | PHASE |
| 655 | 26.88 | 48.55 | 615 | 28.53 | 15.88 | 12.88 | 6.35 | 4.43 | .98 | .59 | 1.93 | AMP |
| 656 | 26.72 | 41.42 | 614 | 142.58 | 323.92 | 58.88 | 337.53 | 117.94 | 348.41 | 258.25 | 226.81 | PHASE |
| 657 | 27.42 | 41.24 | 615 | 21.42 | 15.89 | 13.84 | 6.16 | 4.45 | .83 | .65 | 2.81 | AMP |
| 658 | 28.17 | 42.17 | 615 | 144.67 | 328.63 | 55.55 | 348.16 | 132.79 | 6.63 | 265.35 | 242.19 | PHASE |
| 659 | 24.38 | 38.82 | 617 | 21.81 | 16.81 | 12.97 | 5.93 | 4.39 | .66 | .72 | 1.86 | AMP |
| 660 | 25.99 | 31.18 | 616 | 145.78 | 331.44 | 58.28 | 352.68 | 146.21 | 14.62 | 278.51 | 249.64 | PHASE |
| 661 | 27.58 | 31.99 | 616 | 22.88 | 15.88 | 12.89 | 5.63 | 4.38 | .64 | .73 | 1.72 | AMP |
| 662 | 29.85 | 32.87 | 616 | 139.81 | 318.48 | 39.45 | 327.54 | 115.12 | 346.52 | 231.31 | 281.92 | PHASE |
| 663 | 38.61 | 33.58 | 616 | 22.48 | 16.88 | 12.93 | 5.58 | 4.35 | .47 | .88 | 1.69 | AMP |
| 664 | 31.25 | 34.63 | 617 | 139.28 | 318.56 | 37.98 | 324.48 | 119.87 | 342.71 | 228.22 | 197.61 | PHASE |
| 665 | 31.99 | 35.88 | 615 | 17.83 | 12.63 | 9.73 | 4.25 | 4.25 | .98 | .33 | 1.16 | AMP |
| 666 | 25.93 | 21.99 | 616 | 144.84 | 331.43 | 49.93 | 334.83 | 86.87 | 339.11 | 253.28 | 211.11 | PHASE |
| 667 | 27.58 | 22.51 | 616 | 17.78 | 13.28 | 18.16 | 4.44 | 4.18 | .95 | .45 | 1.16 | AMP |
| 668 | 29.89 | 23.69 | 616 | 148.89 | 325.65 | 36.21 | 319.62 | 76.57 | 321.36 | 228.89 | 198.83 | PHASE |
| 669 | 38.69 | 25.64 | 616 | 18.63 | 13.45 | 18.66 | 4.51 | 4.25 | .95 | .49 | 1.82 | AMP |
| 670 | 32.22 | 26.78 | 616 | 145.51 | 336.48 | 48.93 | 348.58 | 182.39 | 344.86 | 268.26 | 234.86 | PHASE |
| 671 | 33.96 | 28.11 | 616 | 19.42 | 13.88 | 11.28 | 4.56 | 4.16 | .81 | .51 | .88 | AMP |
| 672 | 34.84 | 28.25 | 616 | 148.76 | 327.56 | 35.26 | 323.88 | 82.94 | 321.79 | 227.98 | 198.77 | PHASE |
| 673 | 29.17 | 17.65 | 616 | 28.42 | 14.81 | 11.55 | 4.38 | 3.98 | .82 | .55 | .88 | AMP |
| 674 | 38.66 | 18.79 | 616 | 136.62 | 321.25 | 23.71 | 387.38 | 65.53 | 297.87 | 211.29 | 159.67 | PHASE |
| 675 | 32.13 | 28.46 | 615 | 28.84 | 14.34 | 11.82 | 4.41 | 3.97 | .75 | .57 | .79 | AMP |
| 676 | 33.74 | 21.47 | 616 | 139.88 | 327.26 | 33.23 | 319.11 | 83.43 | 316.78 | 245.52 | 185.23 | PHASE |
| 677 | 35.29 | 22.98 | 616 | 21.25 | 14.52 | 11.77 | 4.18 | 4.85 | .82 | .63 | .81 | AMP |
| 678 | 36.29 | 23.92 | 616 | 139.86 | 329.18 | 34.98 | 319.88 | 84.42 | 314.88 | 249.26 | 184.46 | PHASE |
| | | | | 14.21 | 18.21 | 6.13 | 2.55 | 3.71 | .51 | .25 | .59 | AMP |
| | | | | 143.74 | 336.68 | 42.55 | 338.78 | 71.97 | 388.14 | 249.14 | 282.69 | PHASE |
| | | | | 14.85 | 18.55 | 6.45 | 2.69 | 3.59 | .49 | .25 | .59 | AMP |
| | | | | 147.11 | 345.89 | 58.91 | 358.28 | 93.41 | 331.65 | 272.56 | 237.88 | PHASE |
| | | | | 15.64 | 18.79 | 7.25 | 3.83 | 3.54 | .51 | .28 | .56 | AMP |
| | | | | 143.84 | 348.98 | 41.21 | 342.48 | 79.68 | 317.82 | 268.74 | 224.78 | PHASE |
| | | | | 16.56 | 11.38 | 8.38 | 3.24 | 3.83 | .44 | .21 | .53 | AMP |
| | | | | 138.63 | 338.84 | 25.98 | 321.48 | 53.52 | 278.85 | 213.11 | 169.54 | PHASE |
| | | | | 17.66 | 12.83 | 9.84 | 3.33 | 3.58 | .53 | .29 | .65 | AMP |
| | | | | 143.24 | 341.48 | 39.61 | 339.72 | 75.56 | 285.21 | 251.61 | 196.14 | PHASE |
| | | | | 18.78 | 12.56 | 9.58 | 3.46 | 3.61 | .64 | .39 | .66 | AMP |
| | | | | 137.43 | 332.86 | 24.12 | 319.88 | 54.11 | 247.93 | 235.46 | 159.99 | PHASE |
| | | | | 19.85 | 12.63 | 9.69 | 3.34 | 3.73 | .62 | .46 | .77 | AMP |
| | | | | 138.61 | 335.72 | 28.98 | 325.81 | 61.63 | 253.29 | 258.49 | 173.81 | PHASE |
| | | | | 12.94 | 8.99 | 4.41 | 2.18 | 2.34 | .52 | .29 | .42 | AMP |
| | | | | 142.53 | 339.52 | 25.83 | 329.37 | 78.14 | 243.37 | 229.59 | 194.58 | PHASE |
| | | | | 13.46 | 9.31 | 5.16 | 2.32 | 2.23 | .48 | .27 | .43 | AMP |
| | | | | 143.36 | 342.97 | 38.33 | 348.66 | 75.88 | 268.37 | 253.23 | 214.38 | PHASE |
| | | | | 14.47 | 9.83 | 5.95 | 2.42 | 2.49 | .43 | .25 | .29 | AMP |
| | | | | 145.84 | 348.23 | 33.31 | 352.62 | 78.51 | 278.27 | 288.91 | 219.21 | PHASE |
| | | | | 15.59 | 18.49 | 5.61 | 2.66 | 2.92 | .48 | .26 | .37 | AMP |
| | | | | 137.47 | 334.83 | 19.43 | 325.96 | 45.23 | 287.82 | 235.68 | 159.58 | PHASE |
| | | | | 16.59 | 11.84 | 7.84 | 2.96 | 3.14 | .58 | .38 | .43 | AMP |
| | | | | 133.51 | 339.88 | 25.84 | 331.57 | 57.58 | 214.47 | 265.66 | 178.95 | PHASE |
| | | | | 17.26 | 11.45 | 7.48 | 3.12 | 3.35 | .68 | .33 | .51 | AMP |
| | | | | 136.14 | 334.58 | 21.36 | 322.47 | 49.73 | 284.54 | 257.36 | 164.17 | PHASE |

TABLE VIII.- Continued

(f) Continued

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|--------|--------|---------|--------|--------|--------|-------|--------|--------|--------|--------|-------|
| PT NO | RUN NO | 2# | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 25.3# | 61.54 | 615 | 14.24 | 9.15 | 5.16 | 6.81 | 5.21 | 19.86 | 16.37 | 5.71 | AMP |
| | | | | 277.87 | 139.63 | 313.24 | 85.89 | 88.19 | 136.83 | 155.87 | 228.69 | PHASE |
| 654 | 23.81 | 75.32 | 615 | 17.79 | 13.84 | 18.21 | 8.23 | 3.39 | 29.85 | 21.22 | 7.82 | AMP |
| | | | | 287.42 | 139.41 | 388.98 | 63.43 | 65.17 | 189.53 | 123.28 | 194.19 | PHASE |
| 655 | 22.86 | 85.74 | 615 | 21.86 | 18.11 | 14.83 | 11.39 | 1.67 | 34.84 | 24.98 | 6.41 | AMP |
| | | | | 383.83 | 151.99 | 383.19 | 69.18 | 55.82 | 135.22 | 145.68 | 288.66 | PHASE |
| 656 | 21.22 | 92.15 | 614 | 24.64 | 28.51 | 16.18 | 13.49 | 1.15 | 35.77 | 25.28 | 5.56 | AMP |
| | | | | 312.44 | 157.82 | 386.21 | 76.23 | 352.84 | 158.97 | 161.79 | 212.88 | PHASE |
| 657 | 28.1# | 93.7# | 615 | 27.45 | 22.22 | 18.38 | 14.76 | 2.36 | 35.33 | 25.91 | 6.82 | AMP |
| | | | | 312.28 | 149.43 | 286.52 | 49.61 | 285.53 | 121.91 | 125.75 | 157.75 | PHASE |
| 658 | 18.77 | 97.27 | 615 | 31.27 | 24.18 | 28.86 | 15.98 | 3.88 | 38.18 | 27.65 | 6.41 | AMP |
| | | | | 318.21 | 152.54 | 286.24 | 48.71 | 286.81 | 138.89 | 138.64 | 152.93 | PHASE |
| 659 | 23.39 | 47.96 | 617 | 18.86 | 8.88 | 6.65 | 7.52 | 3.33 | 14.58 | 11.64 | 3.49 | AMP |
| | | | | 275.84 | 133.38 | 285.52 | 65.78 | 3.83 | 117.27 | 124.45 | 157.82 | PHASE |
| 660 | 23.26 | 55.18 | 616 | 12.95 | 12.88 | 9.68 | 9.31 | 1.87 | 17.46 | 13.28 | 3.84 | AMP |
| | | | | 286.21 | 137.98 | 277.42 | 45.54 | 315.81 | 184.98 | 183.87 | 139.69 | PHASE |
| 661 | 23.27 | 61.14 | 616 | 16.79 | 15.96 | 12.82 | 12.78 | 4.81 | 17.49 | 14.94 | 3.78 | AMP |
| | | | | 389.64 | 155.89 | 288.89 | 63.87 | 389.51 | 142.56 | 137.48 | 176.66 | PHASE |
| 662 | 22.83 | 68.85 | 616 | 22.25 | 19.42 | 17.87 | 16.58 | 6.22 | 18.48 | 18.17 | 4.24 | AMP |
| | | | | 318.23 | 153.38 | 273.11 | 49.38 | 286.23 | 134.46 | 123.43 | 142.27 | PHASE |
| 663 | 21.98 | 79.81 | 616 | 38.58 | 22.59 | 22.27 | 19.59 | 6.89 | 21.92 | 19.17 | 5.53 | AMP |
| | | | | 325.27 | 153.45 | 265.88 | 38.38 | 283.45 | 133.74 | 189.16 | 115.58 | PHASE |
| 664 | 21.35 | 84.87 | 617 | 34.27 | 24.11 | 24.94 | 28.87 | 5.68 | 24.58 | 18.92 | 6.24 | AMP |
| | | | | 333.45 | 162.88 | 276.66 | 53.17 | 298.95 | 161.78 | 148.21 | 145.18 | PHASE |
| 665 | 28.66 | 92.15 | 615 | 38.33 | 25.32 | 27.71 | 21.98 | 5.21 | 24.98 | 19.14 | 6.89 | AMP |
| | | | | 336.47 | 168.68 | 278.67 | 55.85 | 299.33 | 178.32 | 145.23 | 145.87 | PHASE |
| 666 | 28.5# | 28.68 | 616 | 7.44 | 5.22 | 3.68 | 6.66 | 3.31 | 3.99 | 5.64 | 1.65 | AMP |
| | | | | 254.39 | 143.58 | 275.88 | 66.14 | 324.14 | 79.35 | 185.38 | 152.41 | PHASE |
| 667 | 21.34 | 31.97 | 616 | 8.86 | 7.89 | 6.47 | 7.82 | 2.33 | 4.63 | 6.87 | 2.14 | AMP |
| | | | | 279.76 | 163.58 | 285.76 | 74.95 | 314.11 | 123.67 | 133.86 | 184.67 | PHASE |
| 668 | 22.33 | 42.16 | 616 | 11.13 | 11.61 | 8.82 | 11.57 | 4.27 | 9.42 | 7.87 | 1.98 | AMP |
| | | | | 386.47 | 167.66 | 272.83 | 58.22 | 268.38 | 124.69 | 117.84 | 164.11 | PHASE |
| 669 | 23.28 | 57.88 | 616 | 17.28 | 15.18 | 13.95 | 15.84 | 5.51 | 9.86 | 18.17 | 3.65 | AMP |
| | | | | 323.78 | 162.18 | 251.73 | 36.46 | 255.25 | 153.14 | 96.48 | 117.79 | PHASE |
| 670 | 23.68 | 76.19 | 616 | 25.61 | 17.69 | 19.28 | 19.45 | 5.71 | 11.25 | 9.95 | 4.82 | AMP |
| | | | | 348.68 | 177.79 | 267.93 | 58.78 | 269.84 | 288.26 | 145.86 | 163.79 | PHASE |
| 671 | 23.74 | 93.98 | 616 | 37.13 | 28.54 | 25.54 | 23.88 | 4.52 | 9.58 | 18.68 | 4.78 | AMP |
| | | | | 342.57 | 175.75 | 255.29 | 39.83 | 243.24 | 163.68 | 116.68 | 138.28 | PHASE |
| 672 | 23.27 | 186.82 | 616 | 43.48 | 21.18 | 28.88 | 23.94 | 5.42 | 7.67 | 18.95 | 4.98 | AMP |
| | | | | 347.56 | 182.38 | 262.87 | 45.55 | 237.56 | 177.83 | 124.22 | 161.88 | PHASE |
| 673 | 19.48 | 26.19 | 616 | 5.44 | 5.41 | 2.59 | 5.71 | 2.13 | 8.46 | 4.39 | 1.31 | AMP |
| | | | | 253.33 | 188.92 | 254.86 | 59.14 | 254.38 | 33.62 | 95.78 | 138.89 | PHASE |
| 674 | 21.22 | 35.99 | 616 | 6.32 | 8.29 | 5.86 | 8.24 | 3.42 | 13.39 | 5.94 | 1.64 | AMP |
| | | | | 293.77 | 198.59 | 255.43 | 45.63 | 231.13 | 93.96 | 91.94 | 143.56 | PHASE |
| 675 | 22.67 | 46.84 | 615 | 11.41 | 11.87 | 9.56 | 12.88 | 5.16 | 9.98 | 6.75 | 2.28 | AMP |
| | | | | 335.28 | 198.48 | 258.89 | 59.48 | 264.28 | 165.38 | 132.21 | 124.71 | PHASE |
| 676 | 24.38 | 71.68 | 615 | 22.43 | 15.68 | 15.81 | 16.54 | 6.61 | 6.42 | 5.18 | 2.88 | AMP |
| | | | | 345.37 | 198.53 | 241.64 | 34.76 | 228.82 | 227.65 | 98.74 | 117.48 | PHASE |
| 677 | 25.32 | 91.75 | 616 | 34.15 | 18.84 | 28.65 | 19.14 | 8.68 | 7.14 | 5.32 | 2.99 | AMP |
| | | | | 353.38 | 199.46 | 258.11 | 42.43 | 222.19 | 294.68 | 187.18 | 168.15 | PHASE |
| 678 | 25.68 | 99.78 | 616 | 42.79 | 28.96 | 25.89 | 28.22 | 9.47 | 5.96 | 6.18 | 3.13 | AMP |
| | | | | 354.55 | 198.29 | 247.93 | 32.91 | 285.71 | 388.88 | 91.19 | 154.47 | PHASE |

TABLE VIII.- Continued

(f) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 3.89 | 12.16 | 615 | 5.48 | 4.79 | 1.26 | 2.35 | 1.97 | 1.53 | .88 | 1.86 AMP |
| 654 | 1.64 | 11.98 | 615 | 296.83 | 125.85 | 121.75 | 314.88 | 39.41 | 147.77 | 357.23 | 76.18 PHASE |
| 655 | -.57 | 12.74 | 615 | 4.98 | 4.24 | 1.15 | 2.37 | 1.46 | .85 | .96 | AMP |
| 656 | -1.65 | 12.88 | 614 | 388.57 | 118.97 | 116.54 | 291.83 | 12.74 | 127.58 | 337.82 | 47.33 PHASE |
| 657 | -2.79 | 12.97 | 615 | 4.99 | 3.92 | 1.83 | 2.49 | 2.74 | 1.33 | .81 | .88 AMP |
| 658 | -3.99 | 13.38 | 615 | 325.39 | 127.49 | 143.99 | 295.18 | 28.98 | 147.43 | 8.87 | 63.78 PHASE |
| 659 | 3.18 | 9.96 | 617 | 5.13 | 3.79 | 1.87 | 2.49 | 2.89 | 1.24 | .82 | .83 AMP |
| 660 | 1.89 | 9.94 | 616 | 333.68 | 133.58 | 161.68 | 298.33 | 44.15 | 161.91 | 22.25 | 72.23 PHASE |
| 661 | -.87 | 9.71 | 616 | 5.33 | 3.67 | 1.14 | 2.46 | 3.82 | 1.89 | .79 | .68 AMP |
| 662 | -3.89 | 18.12 | 616 | 335.93 | 121.88 | 154.87 | 275.18 | 14.98 | 126.86 | 334.38 | 17.82 PHASE |
| 663 | -5.48 | 18.88 | 616 | 5.75 | 3.59 | 1.33 | 2.58 | 3.25 | 1.84 | .69 | .59 AMP |
| 664 | -6.53 | 11.66 | 617 | 342.88 | 124.13 | 164.88 | 274.88 | 21.66 | 128.93 | 339.21 | 13.29 PHASE |
| 665 | -7.58 | 11.89 | 615 | 4.58 | 4.86 | .39 | 2.19 | 1.81 | 1.81 | .57 | .45 AMP |
| 666 | 2.22 | 7.49 | 616 | 283.52 | 182.51 | 23.82 | 286.15 | .66 | 185.98 | 387.77 | 19.89 PHASE |
| 667 | .36 | 7.25 | 616 | 4.84 | 3.48 | .18 | 2.22 | 2.88 | .93 | .63 | .47 AMP |
| 668 | -1.57 | 7.47 | 616 | 295.57 | 188.77 | 318.41 | 269.37 | 347.72 | 84.33 | 388.35 | 7.74 PHASE |
| 669 | -3.84 | 7.68 | 616 | 3.81 | 2.97 | 1.34 | 2.16 | 2.35 | .92 | .64 | .52 AMP |
| 670 | -6.86 | 8.39 | 616 | 317.78 | 114.68 | 277.48 | 289.83 | 16.88 | 118.78 | 351.25 | 71.51 PHASE |
| 671 | -8.48 | 9.83 | 616 | 3.99 | 2.59 | .63 | 2.28 | 2.59 | .93 | .63 | .36 AMP |
| 672 | -9.68 | 18.81 | 616 | 333.17 | 111.94 | 238.74 | 272.98 | 4.85 | 97.86 | 318.76 | 25.69 PHASE |
| 673 | -6.1 | 6.58 | 616 | 4.71 | 2.48 | 1.86 | 2.35 | 2.78 | .96 | .59 | .35 AMP |
| 674 | -2.52 | 5.83 | 616 | 346.86 | 114.75 | 221.23 | 262.95 | 358.89 | 81.58 | 257.98 | 321.43 PHASE |
| 675 | -4.58 | 5.77 | 615 | 5.25 | 2.48 | 1.26 | 2.48 | 2.88 | 1.87 | .56 | .42 AMP |
| 676 | -6.85 | 6.84 | 616 | 356.75 | 125.85 | 228.58 | 278.57 | 22.41 | 185.38 | 269.67 | 338.18 PHASE |
| 677 | -8.96 | 8.88 | 616 | 5.79 | 2.58 | 1.45 | 2.32 | 2.91 | 1.14 | .51 | .48 AMP |
| 678 | -18.26 | 9.52 | 616 | 2.18 | 131.48 | 233.51 | 284.83 | 29.63 | 111.82 | 261.17 | 345.98 PHASE |
| | | | | 3.89 | 2.85 | .78 | 1.64 | 1.77 | .88 | .28 | .31 AMP |
| | | | | 273.75 | 93.37 | 387.31 | 288.88 | 343.93 | 81.53 | 298.48 | 44.88 PHASE |
| | | | | 3.35 | 2.18 | .95 | 1.68 | 1.75 | .67 | .26 | .31 AMP |
| | | | | 298.45 | 184.61 | 382.36 | 293.45 | 3.98 | 184.36 | 352.53 | 182.22 PHASE |
| | | | | 3.84 | 1.69 | 1.81 | 1.58 | 2.85 | .68 | .36 | .43 AMP |
| | | | | 387.48 | 186.78 | 274.56 | 279.34 | 354.73 | 182.92 | 339.26 | 69.79 PHASE |
| | | | | 3.17 | 1.38 | 1.19 | 1.64 | 2.16 | .69 | .47 | .38 AMP |
| | | | | 328.98 | 188.28 | 248.96 | 262.82 | 343.11 | 88.78 | 257.53 | 15.33 PHASE |
| | | | | 3.97 | 1.41 | 1.49 | 1.77 | 2.84 | .77 | .59 | .39 AMP |
| | | | | 352.84 | 136.62 | 268.58 | 284.48 | 19.17 | 125.91 | 266.14 | 21.37 PHASE |
| | | | | 5.13 | 1.54 | 1.87 | 1.88 | 2.26 | 1.82 | .78 | .48 AMP |
| | | | | 2.11 | 142.55 | 237.35 | 266.87 | 3.56 | 188.69 | 231.29 | 338.22 PHASE |
| | | | | 5.98 | 1.64 | 2.83 | 1.77 | 2.23 | 1.14 | .76 | .52 AMP |
| | | | | 8.32 | 158.18 | 241.11 | 276.78 | 14.95 | 124.47 | 244.76 | 352.43 PHASE |
| | | | | 2.58 | 1.22 | 1.37 | 1.16 | 1.66 | .82 | .38 | .41 AMP |
| | | | | 271.88 | 85.85 | 281.18 | 275.53 | 348.88 | 62.98 | 358.66 | 31.77 PHASE |
| | | | | 2.82 | .76 | 1.27 | 1.15 | 1.96 | .66 | .45 | .38 AMP |
| | | | | 297.43 | 188.67 | 274.59 | 274.88 | 348.95 | 73.88 | 3.57 | 43.26 PHASE |
| | | | | 2.14 | .53 | 1.49 | 1.28 | 1.99 | .52 | .24 | .28 AMP |
| | | | | 333.71 | 138.19 | 274.57 | 285.15 | 18.63 | 85.26 | 7.98 | 44.51 PHASE |
| | | | | 3.87 | .72 | 1.77 | 1.38 | 1.74 | .48 | .49 | .31 AMP |
| | | | | 353.89 | 162.49 | 249.84 | 259.88 | 336.38 | 94.81 | 252.82 | 337.51 PHASE |
| | | | | 4.26 | 1.82 | 2.86 | 1.32 | 1.62 | .65 | .69 | .37 AMP |
| | | | | 7.99 | 176.13 | 248.28 | 265.63 | 358.81 | 135.46 | 253.47 | 346.78 PHASE |
| | | | | 5.22 | 1.32 | 2.31 | 1.37 | 1.69 | .81 | .84 | .49 AMP |
| | | | | 11.29 | 173.21 | 236.23 | 261.83 | 345.99 | 129.85 | 246.88 | 339.98 PHASE |

TABLE VIII.- Continued

(f) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO | | 2θ | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 5.84 | 55.68 | 615 | 26.26 | 28.51 | 13.64 | 1.98 | 5.13 | 2.88 | 2.73 | 7.88 AMP |
| | | | | 141.23 | 336.81 | 57.57 | 23.62 | 297.58 | 186.38 | 61.86 | 262.65 PHASE |
| 654 | 6.93 | 55.38 | 615 | 27.46 | 28.85 | 14.44 | 2.88 | 5.89 | 2.56 | 2.24 | 6.15 AMP |
| | | | | 137.48 | 325.21 | 41.87 | 2.83 | 271.79 | 149.68 | 23.75 | 228.81 PHASE |
| 655 | 8.75 | 55.64 | 615 | 28.42 | 21.87 | 14.93 | 2.88 | 5.29 | 2.57 | 2.16 | 6.13 AMP |
| | | | | 148.38 | 329.48 | 47.62 | 11.48 | 285.59 | 165.19 | 36.28 | 243.84 PHASE |
| 656 | 9.64 | 56.88 | 614 | 28.85 | 21.19 | 15.89 | 2.84 | 5.32 | 2.59 | 1.85 | 5.72 AMP |
| | | | | 141.79 | 331.96 | 51.26 | 13.25 | 293.16 | 176.49 | 36.41 | 251.29 PHASE |
| 657 | 10.59 | 54.82 | 615 | 29.14 | 21.82 | 15.32 | 2.14 | 5.17 | 2.55 | 1.78 | 5.88 AMP |
| | | | | 135.88 | 319.88 | 35.38 | 351.68 | 263.32 | 138.28 | 357.63 | 281.89 PHASE |
| 658 | 11.45 | 54.35 | 615 | 29.72 | 21.25 | 15.53 | 2.16 | 5.14 | 2.49 | 1.57 | 4.57 AMP |
| | | | | 135.73 | 319.88 | 32.77 | 358.73 | 264.25 | 138.64 | 349.86 | 198.77 PHASE |
| 659 | 7.38 | 43.78 | 617 | 23.11 | 17.44 | 18.68 | 1.73 | 4.87 | 2.28 | 1.81 | 3.21 AMP |
| | | | | 136.77 | 338.75 | 43.88 | 349.68 | 263.22 | 143.19 | 45.82 | 211.48 PHASE |
| 660 | 9.24 | 44.88 | 616 | 24.84 | 17.96 | 11.56 | 1.88 | 4.15 | 2.82 | 1.64 | 3.19 AMP |
| | | | | 133.97 | 325.36 | 31.35 | 341.28 | 248.98 | 128.19 | 28.39 | 198.13 PHASE |
| 661 | 10.98 | 45.53 | 616 | 25.81 | 18.31 | 12.35 | 2.81 | 4.34 | 2.21 | 1.47 | 2.74 AMP |
| | | | | 139.48 | 335.88 | 45.36 | 1.68 | 272.95 | 146.38 | 53.98 | 232.29 PHASE |
| 662 | 12.88 | 46.46 | 616 | 25.93 | 18.81 | 13.38 | 2.15 | 4.36 | 2.34 | 1.35 | 2.46 AMP |
| | | | | 135.67 | 326.55 | 33.44 | 344.65 | 253.48 | 119.66 | 28.37 | 199.32 PHASE |
| 663 | 14.59 | 47.68 | 616 | 27.21 | 19.38 | 14.11 | 2.15 | 4.25 | 2.42 | 1.26 | 2.33 AMP |
| | | | | 132.66 | 319.73 | 24.22 | 329.56 | 238.26 | 185.11 | 353.75 | 162.41 PHASE |
| 664 | 15.36 | 48.48 | 617 | 27.84 | 19.83 | 14.69 | 2.25 | 4.29 | 2.39 | 1.19 | 2.42 AMP |
| | | | | 136.11 | 326.18 | 34.28 | 341.47 | 256.55 | 127.54 | 18.64 | 189.89 PHASE |
| 665 | 16.21 | 48.98 | 615 | 28.48 | 28.18 | 14.83 | 2.17 | 4.22 | 2.52 | 1.88 | 2.48 AMP |
| | | | | 136.62 | 327.71 | 37.17 | 343.32 | 258.24 | 133.67 | 15.81 | 185.74 PHASE |
| 666 | 9.82 | 33.69 | 616 | 19.58 | 14.31 | 7.84 | 1.41 | 2.84 | 1.85 | 1.16 | 1.53 AMP |
| | | | | 136.81 | 333.64 | 37.98 | 315.88 | 255.41 | 138.95 | 47.83 | 284.98 PHASE |
| 667 | 11.66 | 34.19 | 616 | 28.29 | 14.63 | 7.54 | 1.32 | 2.76 | 1.88 | 1.87 | 1.36 AMP |
| | | | | 148.13 | 342.75 | 48.23 | 335.25 | 277.51 | 157.57 | 76.53 | 237.58 PHASE |
| 668 | 13.45 | 35.88 | 616 | 21.28 | 14.86 | 8.67 | 1.39 | 2.96 | 1.16 | .64 | 1.34 AMP |
| | | | | 137.77 | 337.35 | 39.33 | 324.84 | 268.68 | 131.12 | 51.85 | 221.68 PHASE |
| 669 | 15.24 | 37.48 | 616 | 22.53 | 15.32 | 18.36 | 1.43 | 3.14 | 1.41 | .82 | 1.47 AMP |
| | | | | 133.49 | 326.62 | 25.44 | 386.42 | 237.87 | 187.28 | 12.48 | 171.98 PHASE |
| 670 | 16.95 | 39.71 | 616 | 24.12 | 16.38 | 11.45 | 1.48 | 3.81 | 1.56 | .92 | 1.73 AMP |
| | | | | 138.72 | 336.88 | 48.92 | 321.88 | 263.87 | 148.38 | 38.92 | 197.33 PHASE |
| 671 | 19.81 | 41.32 | 616 | 25.53 | 16.97 | 12.78 | 1.39 | 3.82 | 1.45 | .78 | 1.79 AMP |
| | | | | 134.23 | 327.44 | 27.79 | 385.83 | 242.19 | 115.56 | 341.62 | 163.78 PHASE |
| 672 | 19.97 | 41.81 | 616 | 26.85 | 17.21 | 13.84 | 1.34 | 2.93 | 1.39 | .57 | 1.92 AMP |
| | | | | 136.23 | 338.47 | 33.38 | 318.39 | 258.81 | 127.81 | 347.71 | 176.11 PHASE |
| 673 | 14.21 | 27.53 | 616 | 17.67 | 12.35 | 9.13 | 1.36 | 1.91 | .37 | .29 | .86 AMP |
| | | | | 135.68 | 334.92 | 23.84 | 388.35 | 258.77 | 139.37 | 48.78 | 188.18 PHASE |
| 674 | 15.99 | 28.28 | 616 | 18.37 | 12.51 | 6.22 | 1.24 | 2.82 | .68 | .21 | .67 AMP |
| | | | | 137.65 | 338.61 | 28.25 | 386.57 | 255.35 | 125.26 | 88.93 | 284.12 PHASE |
| 675 | 17.74 | 29.86 | 615 | 19.69 | 12.94 | 7.37 | 1.14 | 2.14 | .86 | .24 | .58 AMP |
| | | | | 148.45 | 343.28 | 37.67 | 318.12 | 278.55 | 158.83 | 28.44 | 185.81 PHASE |
| 676 | 19.78 | 31.95 | 616 | 21.51 | 13.55 | 8.45 | 1.13 | 2.18 | .78 | .38 | .61 AMP |
| | | | | 133.88 | 329.26 | 28.78 | 278.44 | 242.33 | 112.37 | 357.31 | 147.43 PHASE |
| 677 | 21.45 | 34.36 | 616 | 23.82 | 14.83 | 9.36 | 1.81 | 2.15 | .82 | .48 | .71 AMP |
| | | | | 136.81 | 333.57 | 38.26 | 275.71 | 258.55 | 121.82 | 342.88 | 159.79 PHASE |
| 678 | 22.57 | 35.73 | 615 | 24.81 | 14.54 | 18.48 | .98 | 2.11 | .78 | .32 | 1.88 AMP |
| | | | | 134.37 | 329.49 | 27.47 | 266.38 | 242.39 | 114.59 | 325.47 | 158.79 PHASE |

TABLE VIII.- Continued

(f) Continued

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 7.34 | 62.18 | 615 | 15.78 | 9.68 | 4.18 | 5.94 | 5.18 | 28.19 | 19.39 | 7.41 AMP |
| 654 | 5.83 | 79.27 | 615 | 291.34 | 145.42 | 332.73 | 94.28 | 98.12 | 139.35 | 168.53 | 237.77 PHASE |
| 655 | 4.31 | 91.41 | 615 | 19.64 | 13.13 | 8.48 | 6.73 | 2.84 | 38.13 | 24.31 | 8.55 AMP |
| 656 | 3.49 | 101.33 | 614 | 295.87 | 143.25 | 315.85 | 67.61 | 77.91 | 111.85 | 129.28 | 287.57 PHASE |
| 657 | 2.46 | 101.88 | 615 | 23.98 | 16.48 | 11.88 | 12.59 | .26 | 35.88 | 27.84 | 7.66 AMP |
| 658 | 1.24 | 108.62 | 615 | 386.88 | 154.24 | 316.97 | 72.38 | 88.62 | 137.17 | 151.43 | 221.89 PHASE |
| 659 | 4.86 | 47.87 | 617 | 26.43 | 18.38 | 13.64 | 14.86 | 1.52 | 37.68 | 28.87 | 6.35 AMP |
| 660 | 4.68 | 55.59 | 616 | 312.18 | 159.22 | 328.19 | 78.28 | 281.34 | 153.53 | 167.69 | 225.88 PHASE |
| 661 | 4.34 | 65.35 | 616 | 29.88 | 19.76 | 15.61 | 16.34 | 3.89 | 37.12 | 28.91 | 6.37 AMP |
| 662 | 3.59 | 78.77 | 616 | 389.78 | 149.92 | 388.33 | 51.46 | 257.88 | 124.71 | 131.74 | 166.95 PHASE |
| 663 | 2.63 | 88.54 | 616 | 32.38 | 21.28 | 18.88 | 17.77 | 4.61 | 48.86 | 38.94 | 6.78 AMP |
| 664 | 1.88 | 88.48 | 617 | 313.88 | 152.68 | 299.57 | 58.58 | 265.21 | 134.34 | 137.86 | 157.77 PHASE |
| 665 | 1.16 | 89.37 | 615 | 11.98 | 8.58 | 4.88 | 7.64 | 3.55 | 16.84 | 13.88 | 3.97 AMP |
| 666 | 2.82 | 27.41 | 616 | 291.18 | 143.28 | 298.88 | 69.16 | 355.46 | 128.19 | 129.92 | 169.81 PHASE |
| 667 | 3.81 | 34.73 | 616 | 14.74 | 11.92 | 7.36 | 18.88 | 2.85 | 18.87 | 15.38 | 4.14 AMP |
| 668 | 3.37 | 41.15 | 616 | 295.65 | 144.44 | 291.13 | 48.82 | 298.48 | 187.48 | 118.41 | 158.87 PHASE |
| 669 | 3.67 | 59.12 | 616 | 18.71 | 14.58 | 10.87 | 13.74 | 4.57 | 18.21 | 16.96 | 3.88 AMP |
| 670 | 3.48 | 72.38 | 616 | 311.89 | 159.95 | 382.97 | 67.19 | 382.89 | 145.25 | 143.33 | 183.56 PHASE |
| 671 | 2.65 | 85.88 | 616 | 23.51 | 17.39 | 13.68 | 17.72 | 6.72 | 19.38 | 28.92 | 4.25 AMP |
| 672 | 1.91 | 92.42 | 616 | 314.98 | 155.98 | 288.65 | 51.76 | 281.42 | 138.73 | 128.94 | 143.13 PHASE |
| 673 | 1.69 | 28.57 | 616 | 38.24 | 19.88 | 18.22 | 21.38 | 6.34 | 23.34 | 21.88 | 6.16 AMP |
| 674 | 2.55 | 36.67 | 616 | 318.95 | 154.74 | 279.81 | 39.44 | 276.89 | 139.32 | 114.95 | 112.17 PHASE |
| 675 | 3.83 | 47.31 | 615 | 33.32 | 21.18 | 28.88 | 22.86 | 5.95 | 26.39 | 21.51 | 6.95 AMP |
| 676 | 3.45 | 67.77 | 616 | 325.69 | 163.79 | 291.33 | 53.64 | 298.32 | 167.88 | 146.39 | 142.48 PHASE |
| 677 | 3.42 | 78.52 | 616 | 36.61 | 22.28 | 23.23 | 24.82 | 5.55 | 26.98 | 21.73 | 6.98 AMP |
| 678 | 3.85 | 88.23 | 616 | 328.38 | 169.84 | 292.68 | 56.22 | 298.16 | 176.57 | 151.66 | 142.18 PHASE |
| | | | | 7.77 | 5.53 | 2.29 | 6.92 | 3.73 | 3.93 | 6.43 | 1.64 AMP |
| | | | | 288.51 | 157.21 | 293.32 | 65.88 | 316.43 | 76.68 | 112.17 | 165.22 PHASE |
| | | | | 9.45 | 7.95 | 4.56 | 8.53 | 2.99 | 4.52 | 6.92 | 2.27 AMP |
| | | | | 296.43 | 172.36 | 299.96 | 75.93 | 387.21 | 121.77 | 141.98 | 198.63 PHASE |
| | | | | 12.88 | 11.85 | 6.47 | 12.36 | 5.11 | 9.84 | 8.68 | 2.83 AMP |
| | | | | 389.23 | 172.71 | 289.18 | 53.46 | 268.39 | 125.68 | 123.29 | 172.86 PHASE |
| | | | | 18.88 | 13.94 | 10.26 | 16.86 | 6.17 | 9.65 | 11.49 | 4.14 AMP |
| | | | | 318.26 | 165.55 | 266.34 | 38.12 | 252.81 | 158.34 | 182.32 | 117.81 PHASE |
| | | | | 24.75 | 16.87 | 14.62 | 28.72 | 6.41 | 12.68 | 11.13 | 4.84 AMP |
| | | | | 331.78 | 179.78 | 282.68 | 59.94 | 268.24 | 286.58 | 152.46 | 162.77 PHASE |
| | | | | 33.74 | 18.28 | 19.89 | 24.84 | 5.18 | 18.79 | 11.87 | 5.67 AMP |
| | | | | 333.88 | 176.38 | 269.88 | 48.19 | 238.91 | 172.83 | 123.41 | 136.31 PHASE |
| | | | | 38.43 | 18.78 | 22.85 | 25.97 | 5.93 | 8.96 | 11.86 | 5.86 AMP |
| | | | | 337.68 | 182.22 | 276.18 | 46.63 | 234.73 | 189.22 | 138.52 | 159.52 PHASE |
| | | | | 6.24 | 5.95 | 1.17 | 6.42 | 2.94 | 9.28 | 4.98 | 1.48 AMP |
| | | | | 281.18 | 188.88 | 283.13 | 56.81 | 254.27 | 32.13 | 186.38 | 137.66 PHASE |
| | | | | 8.19 | 8.42 | 3.89 | 9.14 | 4.27 | 14.33 | 6.37 | .59 AMP |
| | | | | 382.15 | 195.23 | 277.66 | 47.88 | 236.67 | 94.86 | 97.77 | 155.94 PHASE |
| | | | | 12.35 | 11.43 | 6.46 | 13.78 | 6.81 | 18.42 | 7.58 | 2.92 AMP |
| | | | | 326.73 | 201.42 | 274.13 | 68.45 | 265.81 | 168.89 | 137.78 | 122.87 PHASE |
| | | | | 28.46 | 14.65 | 18.94 | 17.88 | 7.41 | 7.62 | 5.68 | 3.54 AMP |
| | | | | 334.44 | 191.23 | 256.58 | 35.41 | 222.82 | 231.36 | 186.36 | 115.45 PHASE |
| | | | | 29.22 | 17.22 | 15.55 | 28.56 | 9.36 | 8.45 | 5.52 | 3.68 AMP |
| | | | | 342.65 | 199.11 | 264.18 | 43.15 | 223.82 | 292.86 | 113.88 | 157.22 PHASE |
| | | | | 35.54 | 13.91 | 19.28 | 22.81 | 18.16 | 6.95 | 6.27 | 3.56 AMP |
| | | | | 344.38 | 197.43 | 261.65 | 34.18 | 285.94 | 388.19 | 96.51 | 151.82 PHASE |

TABLE VIII.- Continued

(f) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | 4.55 | 12.65 | 615 | 5.51 | 5.11 | 1.85 | 2.42 | 1.72 | 1.75 | 1.11 | 1.87 |
| | | | | 299.86 | 132.99 | 158.42 | 343.62 | 67.87 | 178.83 | 36.68 | 158.88 |
| 654 | 2.29 | 12.88 | 615 | 4.91 | 4.56 | .91 | 2.36 | 2.86 | 1.68 | 1.87 | 1.86 |
| | | | | 311.47 | 125.89 | 144.26 | 322.64 | 39.84 | 156.18 | 11.91 | 121.33 |
| 655 | .14 | 12.52 | 615 | 4.87 | 4.28 | .98 | 2.34 | 2.39 | 1.57 | .98 | 1.82 |
| | | | | 328.65 | 134.17 | 178.68 | 328.61 | 54.35 | 176.36 | 48.61 | 139.66 |
| 656 | -1.82 | 13.81 | 614 | 4.99 | 4.85 | 1.82 | 2.24 | 2.51 | 1.51 | .98 | .97 |
| | | | | 337.19 | 148.16 | 185.53 | 332.22 | 69.72 | 198.15 | 52.14 | 147.45 |
| 657 | -2.18 | 12.76 | 615 | 5.15 | 3.93 | 1.18 | 2.19 | 2.66 | 1.39 | .96 | .88 |
| | | | | 339.73 | 129.31 | 174.27 | 388.47 | 48.28 | 155.83 | 3.44 | 93.69 |
| 658 | -3.33 | 13.87 | 615 | 5.55 | 3.86 | 1.42 | 2.17 | 2.91 | 1.48 | .86 | .68 |
| | | | | 346.32 | 131.88 | 188.64 | 387.18 | 47.27 | 152.57 | 3.71 | 92.41 |
| 659 | 3.55 | 18.35 | 617 | 4.58 | 4.54 | .36 | 2.23 | 1.76 | 1.25 | .66 | .45 |
| | | | | 287.17 | 111.45 | 49.86 | 317.83 | 26.66 | 141.17 | 358.76 | 98.54 |
| 660 | 1.54 | 18.12 | 616 | 3.94 | 3.84 | .12 | 2.19 | 1.97 | 1.13 | .75 | .51 |
| | | | | 299.53 | 189.74 | 334.35 | 388.79 | 12.68 | 118.38 | 347.97 | 82.17 |
| 661 | -.36 | 9.86 | 616 | 3.68 | 3.38 | .22 | 2.87 | 2.22 | 1.15 | .76 | .62 |
| | | | | 322.44 | 123.58 | 281.15 | 322.15 | 48.37 | 153.26 | 37.37 | 134.75 |
| 662 | -2.53 | 18.89 | 616 | 3.85 | 2.97 | .48 | 1.99 | 2.44 | 1.17 | .73 | .42 |
| | | | | 338.77 | 121.18 | 235.23 | 386.48 | 27.89 | 132.48 | 355.85 | 88.45 |
| 663 | -4.79 | 11.28 | 616 | 4.68 | 2.78 | .88 | 2.88 | 2.69 | 1.22 | .68 | .39 |
| | | | | 353.12 | 123.74 | 219.55 | 294.78 | 28.98 | 117.88 | 382.27 | 14.43 |
| 664 | -5.87 | 11.51 | 617 | 5.13 | 2.86 | 1.87 | 2.11 | 2.76 | 1.33 | .67 | .48 |
| | | | | 3.34 | 134.46 | 226.84 | 318.88 | 44.41 | 142.11 | 313.25 | 33.56 |
| 665 | -6.86 | 12.17 | 615 | 5.68 | 2.88 | 1.21 | 2.84 | 2.81 | 1.41 | .61 | .47 |
| | | | | 8.88 | 139.29 | 229.44 | 314.83 | 51.23 | 147.25 | 387.29 | 41.33 |
| 666 | 2.73 | 7.83 | 616 | 3.78 | 3.32 | .63 | 1.78 | 1.82 | .93 | .36 | .38 |
| | | | | 279.83 | 181.62 | 332.44 | 311.42 | 12.33 | 115.78 | 353.47 | 118.26 |
| 667 | .86 | 7.46 | 616 | 3.16 | 2.63 | .74 | 1.78 | 1.78 | .78 | .37 | .48 |
| | | | | 297.23 | 112.68 | 322.75 | 324.72 | 31.22 | 138.49 | 39.46 | 165.62 |
| 668 | -1.87 | 7.54 | 616 | 2.89 | 2.85 | .74 | 1.55 | 2.88 | .88 | .47 | .47 |
| | | | | 315.52 | 115.28 | 289.88 | 312.64 | 28.17 | 135.99 | 15.36 | 129.13 |
| 669 | -3.26 | 7.78 | 616 | 3.86 | 1.69 | .88 | 1.61 | 2.15 | .83 | .56 | .39 |
| | | | | 338.82 | 117.56 | 256.89 | 294.88 | 6.91 | 114.63 | 381.82 | 67.49 |
| 670 | -5.42 | 8.51 | 616 | 3.92 | 1.78 | 1.15 | 1.63 | 2.18 | .94 | .73 | .45 |
| | | | | 2.88 | 143.84 | 264.85 | 315.89 | 41.71 | 159.28 | 318.71 | 67.87 |
| 671 | -7.82 | 18.47 | 616 | 5.15 | 1.88 | 1.58 | 1.66 | 2.33 | 1.17 | .85 | .53 |
| | | | | 18.82 | 158.89 | 248.49 | 296.61 | 25.62 | 141.81 | 273.85 | 24.58 |
| 672 | -8.98 | 11.86 | 616 | 5.93 | 1.89 | 1.63 | 1.63 | 2.31 | 1.29 | .93 | .59 |
| | | | | 16.89 | 159.38 | 244.43 | 387.59 | 36.52 | 155.86 | 285.92 | 48.18 |
| 673 | -.15 | 6.24 | 616 | 2.27 | 1.69 | 1.81 | 1.23 | 1.69 | .88 | .43 | .49 |
| | | | | 282.36 | 91.61 | 299.46 | 384.78 | 9.22 | 93.52 | 27.24 | 83.89 |
| 674 | -2.81 | 5.69 | 616 | 1.89 | 1.14 | .89 | 1.16 | 1.89 | .74 | .52 | .45 |
| | | | | 311.95 | 184.52 | 289.84 | 386.15 | 16.28 | 183.85 | 39.14 | 97.23 |
| 675 | -3.95 | 5.54 | 615 | 2.18 | .79 | 1.85 | 1.17 | 1.97 | .58 | .31 | .33 |
| | | | | 347.89 | 133.29 | 285.93 | 316.28 | 35.54 | 118.33 | 34.48 | 85.85 |
| 676 | -6.24 | 6.47 | 616 | 3.19 | .83 | 1.26 | 1.23 | 1.82 | .47 | .59 | .48 |
| | | | | 4.26 | 159.39 | 258.35 | 289.52 | 2.16 | 124.68 | 291.18 | 15.78 |
| 677 | -8.33 | 8.78 | 616 | 4.45 | 1.15 | 1.57 | 1.25 | 1.88 | .77 | .85 | .49 |
| | | | | 16.76 | 188.33 | 254.98 | 296.86 | 17.28 | 161.42 | 288.28 | 25.64 |
| 678 | -9.65 | 18.82 | 616 | 5.44 | 1.48 | 1.81 | 1.29 | 1.88 | .96 | .82 | .59 |
| | | | | 19.28 | 181.69 | 243.85 | 293.72 | 12.59 | 156.64 | 288.46 | 25.34 |

TABLE VIII.- Continued

(f) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 28 | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 653 | -13.15 | 53.34 | 615 | 31.45 | 28.82 | 12.42 | 7.76 | 6.53 | 3.86 | 3.25 | 8.68 | AMP |
| | | | | 133.16 | 332.13 | 25.98 | 186.99 | 318.47 | 22.42 | 275.86 | 79.89 | PHASE |
| 654 | -18.14 | 54.48 | 615 | 31.33 | 21.31 | 12.97 | 7.51 | 6.98 | 3.33 | 2.62 | 7.33 | AMP |
| | | | | 133.81 | 322.89 | 11.21 | 169.87 | 298.34 | 351.38 | 248.63 | 45.34 | PHASE |
| 655 | -7.86 | 56.83 | 615 | 31.77 | 21.49 | 13.51 | 7.33 | 7.17 | 3.32 | 2.28 | 7.51 | AMP |
| | | | | 138.87 | 329.26 | 18.69 | 179.82 | 386.76 | 5.58 | 266.36 | 57.94 | PHASE |
| 656 | -5.34 | 56.98 | 614 | 32.17 | 21.66 | 13.85 | 6.99 | 7.25 | 3.39 | 1.74 | 6.98 | AMP |
| | | | | 141.31 | 333.78 | 23.41 | 182.93 | 321.62 | 12.95 | 278.23 | 65.55 | PHASE |
| 657 | -3.84 | 56.77 | 615 | 31.97 | 21.84 | 14.88 | 6.33 | 7.53 | 3.45 | 1.86 | 6.82 | AMP |
| | | | | 137.31 | 321.38 | 4.58 | 158.18 | 291.45 | 327.98 | 242.33 | 13.48 | PHASE |
| 658 | -2.27 | 57.78 | 615 | 32.59 | 22.12 | 14.28 | 6.13 | 7.86 | 3.63 | 1.74 | 5.48 | AMP |
| | | | | 138.54 | 322.62 | 4.64 | 154.13 | 295.63 | 323.92 | 243.12 | 9.48 | PHASE |
| 659 | -18.37 | 45.58 | 617 | 27.93 | 18.37 | 8.66 | 5.77 | 7.34 | 1.95 | 2.39 | 4.12 | AMP |
| | | | | 129.29 | 323.25 | 5.46 | 178.24 | 268.92 | 322.74 | 243.82 | 38.11 | PHASE |
| 668 | -7.47 | 46.17 | 616 | 28.28 | 18.68 | 9.25 | 6.83 | 7.15 | 2.83 | 2.87 | 4.23 | AMP |
| | | | | 129.19 | 328.58 | 357.85 | 153.82 | 252.83 | 381.59 | 224.44 | 8.47 | PHASE |
| 661 | -4.79 | 48.26 | 616 | 28.44 | 19.89 | 9.78 | 6.12 | 7.67 | 2.88 | 1.73 | 3.64 | AMP |
| | | | | 137.61 | 331.98 | 18.74 | 176.33 | 277.91 | 331.29 | 268.88 | 51.15 | PHASE |
| 662 | -1.64 | 58.31 | 616 | 28.79 | 19.73 | 18.52 | 6.18 | 7.69 | 2.26 | 1.63 | 3.29 | AMP |
| | | | | 137.81 | 324.55 | 359.82 | 168.22 | 268.17 | 299.37 | 226.31 | 18.85 | PHASE |
| 663 | 1.64 | 52.19 | 616 | 29.58 | 28.66 | 18.94 | 5.62 | 7.55 | 2.33 | 1.45 | 3.16 | AMP |
| | | | | 136.77 | 319.65 | 351.58 | 143.97 | 244.68 | 279.89 | 195.18 | 348.14 | PHASE |
| 664 | 3.87 | 54.58 | 617 | 38.88 | 21.39 | 11.48 | 5.37 | 7.72 | 2.53 | 1.48 | 3.24 | AMP |
| | | | | 141.74 | 326.89 | 2.17 | 155.48 | 284.31 | 299.38 | 216.26 | 5.62 | PHASE |
| 665 | 4.44 | 54.99 | 615 | 38.58 | 22.84 | 11.33 | 4.93 | 8.83 | 2.49 | 1.25 | 3.38 | AMP |
| | | | | 143.72 | 328.76 | 4.66 | 158.84 | 265.68 | 388.28 | 216.21 | 2.88 | PHASE |
| 666 | -7.65 | 38.46 | 616 | 25.25 | 14.63 | 4.87 | 4.63 | 7.62 | .52 | 1.42 | 1.98 | AMP |
| | | | | 128.48 | 326.52 | 354.74 | 169.92 | 244.16 | 282.96 | 226.87 | 27.27 | PHASE |
| 667 | -4.61 | 39.81 | 616 | 25.56 | 14.85 | 5.29 | 5.88 | 7.41 | .52 | 1.28 | 1.78 | AMP |
| | | | | 135.56 | 338.18 | 7.57 | 186.92 | 266.18 | 314.11 | 255.91 | 58.24 | PHASE |
| 668 | -1.91 | 41.16 | 616 | 26.82 | 15.27 | 6.12 | 5.46 | 7.35 | .61 | .75 | 1.88 | AMP |
| | | | | 135.69 | 335.54 | 2.41 | 174.29 | 253.88 | 279.24 | 222.58 | 42.93 | PHASE |
| 669 | 1.14 | 44.19 | 616 | 26.48 | 15.98 | 7.38 | 5.39 | 7.77 | .79 | .91 | 1.92 | AMP |
| | | | | 134.25 | 326.64 | 353.25 | 158.98 | 229.81 | 267.87 | 198.27 | 352.47 | PHASE |
| 678 | 4.28 | 45.69 | 616 | 27.59 | 17.39 | 8.28 | 5.37 | 7.21 | .96 | .98 | 2.29 | AMP |
| | | | | 142.47 | 337.81 | 11.14 | 168.33 | 254.39 | 321.61 | 288.26 | 14.94 | PHASE |
| 671 | 7.66 | 49.16 | 616 | 28.77 | 18.64 | 9.15 | 5.39 | 7.33 | .79 | .75 | 2.42 | AMP |
| | | | | 141.15 | 329.95 | 359.77 | 143.98 | 234.86 | 318.83 | 149.97 | 341.23 | PHASE |
| 672 | 9.26 | 58.65 | 616 | 29.22 | 19.17 | 9.39 | 5.28 | 7.57 | .88 | .61 | 2.59 | AMP |
| | | | | 144.72 | 333.64 | 6.11 | 149.87 | 242.95 | 326.87 | 147.18 | 352.49 | PHASE |
| 673 | -1.93 | 33.77 | 616 | 23.14 | 12.24 | 3.72 | 3.61 | 5.66 | .48 | .17 | 1.22 | AMP |
| | | | | 138.97 | 332.64 | 331.12 | 168.48 | 243.98 | 14.78 | 262.82 | 358.47 | PHASE |
| 674 | 1.13 | 36.59 | 616 | 23.48 | 12.55 | 4.28 | 4.15 | 5.59 | .35 | .25 | 1.83 | AMP |
| | | | | 135.84 | 339.12 | 343.36 | 171.64 | 251.99 | 358.25 | 316.58 | 28.46 | PHASE |
| 675 | 3.76 | 38.11 | 615 | 24.17 | 13.21 | 4.97 | 4.49 | 6.84 | .52 | .18 | .81 | AMP |
| | | | | 141.41 | 345.94 | 1.82 | 181.84 | 257.86 | 334.84 | 177.92 | 2.92 | PHASE |
| 676 | 6.99 | 48.86 | 616 | 25.47 | 14.39 | 5.67 | 4.94 | 6.57 | .58 | .32 | .86 | AMP |
| | | | | 137.82 | 333.54 | 358.14 | 148.87 | 221.83 | 381.22 | 168.88 | 324.59 | PHASE |
| 677 | 9.98 | 44.86 | 616 | 26.57 | 15.56 | 6.38 | 5.29 | 6.73 | .87 | .44 | 1.88 | AMP |
| | | | | 142.77 | 338.29 | 3.28 | 149.88 | 233.78 | 333.11 | 139.21 | 335.81 | PHASE |
| 678 | 11.83 | 46.24 | 616 | 27.46 | 16.58 | 7.33 | 5.43 | 6.97 | .95 | .42 | 1.46 | AMP |
| | | | | 142.96 | 334.76 | 2.69 | 139.71 | 226.66 | 338.41 | 117.39 | 336.37 | PHASE |

TABLE VIII.- Continued

(f) Continued

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|---------|---------|-----|--------|--------|--------|--------|---------|---------|---------|--------------|
| RUN NO | | 2# | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | -14.76 | 35.49 | 615 | 7.48 | 6.32 | 7.17 | 3.45 | 2.21 | 7.56 | 7.9# | 1.17 AMP |
| | | | | 151.71 | 33#.#5 | 3#.#3 | 142.49 | 327.76 | 124.55 | 161.1# | 199.91 PHASE |
| 654 | -14.22 | 4#.#35 | 615 | 6.43 | 5.55 | 8.33 | 4.## | 2.98 | 11.62 | 9.71 | 1.63 AMP |
| | | | | 156.## | 316.93 | 8.33 | 1#4.96 | 278.27 | 99.18 | 128.33 | 19#.#6 PHASE |
| 655 | -12.98 | 41.15 | 615 | 5.19 | 4.## | 9.2# | 5.23 | 4.26 | 13.73 | 11.## | .86 AMP |
| | | | | 166.96 | 318.22 | 9.62 | 97.95 | 285.29 | 127.25 | 149.74 | 2#.#36 PHASE |
| 656 | -12.## | 44.47 | 614 | 4.4# | 4.47 | 9.7# | 6.13 | 5.## | 14.25 | 11.## | .48 AMP |
| | | | | 172.## | 321.72 | 11.44 | 98.## | 292.96 | 144.61 | 165.83 | 161.11 PHASE |
| 657 | -11.18 | 42.93 | 615 | 3.61 | 4.17 | 1#.#24 | 6.71 | 5.8# | 13.73 | 11.31 | .86 AMP |
| | | | | 176.57 | 3#5.31 | 35#.#7 | 67.## | 261.## | 117.35 | 13#.#51 | 1#3.8# PHASE |
| 658 | -1#.#6# | 44.34 | 615 | 2.7# | 4.## | 1#.#95 | 7.36 | 6.67 | 14.71 | 12.## | 1.16 AMP |
| | | | | 189.17 | 3#2.## | 347.46 | 64.39 | 264.97 | 129.11 | 136.41 | 1#2.14 PHASE |
| 659 | -14.58 | 25.49 | 617 | 7.## | 5.51 | 5.19 | 3.12 | 4.11 | 5.32 | 5.87 | 1.1# AMP |
| | | | | 141.66 | 318.22 | 7.36 | 1#2.8# | 276.37 | 113.## | 131.62 | 111.## PHASE |
| 66# | -14.52 | 27.48 | 616 | 6.14 | 4.61 | 6.## | 4.## | 4.61 | 6.47 | 6.37 | 1.## AMP |
| | | | | 143.32 | 312.## | 353.75 | 75.11 | 251.21 | 1#1.## | 111.2# | 87.78 PHASE |
| 661 | -14.21 | 33.## | 616 | 4.71 | 4.13 | 6.## | 5.36 | 6.## | 6.64 | 6.99 | 1.15 AMP |
| | | | | 152.7# | 319.## | 3.## | 85.## | 275.99 | 139.## | 141.67 | 117.4# PHASE |
| 662 | -12.84 | 35.33 | 616 | 3.## | 3.## | 8.## | 7.## | 7.## | 8.76 | 8.76 | 1.57 AMP |
| | | | | 158.17 | 3#7.69 | 346.48 | 63.8# | 257.97 | 136.22 | 126.59 | 86.11 PHASE |
| 663 | -11.29 | 41.2# | 616 | 1.## | 3.79 | 9.55 | 8.71 | 6.78 | 9.## | 9.## | 2.21 AMP |
| | | | | 189.12 | 297.7# | 332.26 | 47.83 | 245.31 | 14#.## | 112.47 | 7#.#5 PHASE |
| 664 | -1#.#26 | 43.## | 617 | 1.## | 3.95 | 1#.#6# | 9.51 | 6.## | 1#.#49 | 9.## | 2.41 AMP |
| | | | | 26#.#1 | 3#2.72 | 341.## | 6#.#24 | 261.79 | 169.46 | 144.26 | 1#5.89 PHASE |
| 665 | -9.59 | 45.44 | 615 | 1.56 | 4.23 | 11.13 | 9.93 | 6.85 | 1#.#88 | 9.15 | 2.43 AMP |
| | | | | 297.51 | 299.51 | 339.99 | 61.## | 262.73 | 178.61 | 149.## | 1#6.77 PHASE |
| 666 | -13.27 | 21.## | 616 | 7.24 | 4.73 | 3.15 | 2.46 | 4.6# | 1.14 | 2.75 | .46 AMP |
| | | | | 139.47 | 314.99 | 7.## | 95.23 | 26#.#59 | 6#.#43 | 117.3# | 85.51 PHASE |
| 667 | -12.82 | 21.34 | 616 | 6.59 | 4.2# | 3.62 | 2.97 | 4.## | 1.35 | 2.96 | .69 AMP |
| | | | | 146.6# | 322.72 | 9.98 | 1#.#34 | 273.16 | 111.78 | 145.32 | 135.67 PHASE |
| 668 | -13.64 | 22.69 | 616 | 5.32 | 3.7# | 4.38 | 4.15 | 5.9# | 3.53 | 3.63 | .7# AMP |
| | | | | 146.5# | 313.64 | 357.91 | 69.77 | 254.23 | 12#.#13 | 122.58 | 1#5.## PHASE |
| 669 | -13.67 | 26.72 | 616 | 3.36 | 3.44 | 5.35 | 6.23 | 6.63 | 3.## | 4.93 | 1.61 AMP |
| | | | | 143.65 | 298.98 | 337.12 | 48.3# | 233.3# | 162.13 | 99.8# | 78.66 PHASE |
| 67# | -12.88 | 29.27 | 616 | 1.24 | 3.## | 6.67 | 7.92 | 6.64 | 5.39 | 4.## | 1.6# AMP |
| | | | | 15#.## | 3#8.9# | 346.47 | 68.13 | 255.21 | 2#9.42 | 149.3# | 129.44 PHASE |
| 671 | -11.28 | 36.31 | 616 | 1.58 | 4.47 | 8.33 | 9.91 | 6.31 | 4.56 | 5.## | 1.84 AMP |
| | | | | 323.1# | 296.## | 327.59 | 46.33 | 23#.#12 | 177.25 | 118.99 | 1#4.94 PHASE |
| 672 | -1#.##1 | 36.23 | 616 | 3.## | 4.## | 9.23 | 1#.#47 | 6.66 | 3.91 | 4.95 | 1.73 AMP |
| | | | | 327.## | 3##.#2 | 329.## | 52.## | 234.## | 196.71 | 124.85 | 132.## PHASE |
| 673 | -2.74 | 2#.#18 | 616 | 6.76 | 4.## | 2.47 | 2.11 | 4.## | 3.95 | 2.22 | .46 AMP |
| | | | | 142.33 | 3#3.## | 353.59 | 72.## | 243.56 | 21.54 | 1#3.46 | 78.## PHASE |
| 674 | -12.41 | 2#.#26 | 616 | 5.75 | 3.## | 3.## | 2.95 | 4.67 | 5.72 | 2.65 | .39 AMP |
| | | | | 147.78 | 3#7.17 | 353.27 | 50.94 | 241.63 | 84.19 | 91.41 | 35.73 PHASE |
| 675 | -12.9# | 21.18 | 615 | 4.24 | 3.75 | 3.6# | 4.75 | 5.75 | 3.89 | 3.21 | 1.34 AMP |
| | | | | 15#.#5 | 3#3.58 | 352.35 | 69.26 | 257.38 | 166.## | 131.31 | 94.79 PHASE |
| 676 | -13.23 | 24.82 | 616 | 1.## | 4.2# | 4.61 | 6.48 | 6.59 | 3.72 | 2.35 | 1.35 AMP |
| | | | | 132.67 | 2#8.18 | 324.27 | 43.3# | 219.## | 231.74 | 1#2.56 | 92.69 PHASE |
| 677 | -12.51 | 29.75 | 616 | 1.## | 4.## | 5.65 | 7.93 | 7.4# | 4.32 | 2.25 | 1.18 AMP |
| | | | | 3.64 | 29#.#2 | 325.22 | 51.26 | 224.## | 284.86 | 1##.#7 | 141.24 PHASE |
| 678 | -11.4# | 29.84 | 616 | 2.72 | 5.4# | 5.## | 8.71 | 7.73 | 3.7# | 2.62 | .94 AMP |
| | | | | 346.## | 285.5# | 318.89 | 42.54 | 21#.#1 | 2#8.15 | 89.2# | 128.26 PHASE |



TABLE VIII.- Continued

(f) Continued

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | | |
|---------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| RUN NO | | 2# | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 653 | 2.44 | 12.54 | 615 | 5.3# | 5.3# | .57 | 1.66 | 1.25 | 1.48 | .92 | .73 | AMP |
| 654 | .52 | 12.43 | 615 | 287.34 | 126.31 | 215.3# | 7.36 | 46.46 | 194.24 | 79.22 | 187.72 | PHASE |
| 655 | -1.25 | 11.98 | 615 | 4.43 | 4.88 | 1.52 | 1.69 | 1.3# | 1.4# | .85 | .65 | AMP |
| 656 | -2.2# | 11.91 | 614 | 296.48 | 125.42 | 218.89 | 352.2# | 18.12 | 163.47 | 41.17 | 147.84 | PHASE |
| 657 | -3.13 | 11.74 | 615 | 4.84 | 4.52 | .66 | 1.63 | 1.38 | 1.42 | .86 | .78 | AMP |
| 658 | -4.83 | 11.34 | 615 | 313.26 | 138.37 | 221.54 | 4.85 | 23.54 | 188.15 | 63.18 | 167.89 | PHASE |
| 659 | 1.72 | 18.98 | 617 | 3.92 | 4.34 | .77 | 1.53 | 1.29 | 1.43 | .81 | .71 | AMP |
| 660 | -.84 | 9.81 | 616 | 322.41 | 137.25 | 221.54 | 11.73 | 32.82 | 189.82 | 68.65 | 175.38 | PHASE |
| 661 | -1.65 | 9.61 | 616 | 3.79 | 4.19 | .87 | 1.45 | 1.38 | 1.36 | .81 | .59 | AMP |
| 662 | -3.47 | 9.11 | 616 | 325.97 | 127.94 | 197.2# | 351.87 | 3.86 | 149.72 | 25.82 | 116.69 | PHASE |
| 663 | -5.38 | 9.24 | 616 | 3.89 | 4.18 | 1.81 | 1.39 | 1.43 | 1.35 | .8# | .49 | AMP |
| 664 | -6.28 | 18.3# | 617 | 335.81 | 132.3# | 192.85 | 352.64 | 9.84 | 146.87 | 23.36 | 188.51 | PHASE |
| 665 | -7.87 | 18.7# | 615 | 4.62 | 4.61 | .15 | 1.63 | 1.29 | 1.15 | .67 | .32 | AMP |
| 666 | 1.14 | 8.2# | 616 | 274.58 | 111.31 | 272.88 | 342.21 | 3.87 | 155.19 | 54.66 | 118.57 | PHASE |
| 667 | -.48 | 6.64 | 616 | 3.82 | 4.84 | .3# | 1.63 | 1.33 | 1.83 | .71 | .32 | AMP |
| 668 | -2.16 | 6.39 | 616 | 283.12 | 111.51 | 251.48 | 329.73 | 345.92 | 138.2# | 28.55 | 96.38 | PHASE |
| 669 | -4.85 | 6.85 | 616 | 3.24 | 3.63 | .35 | 1.62 | 1.44 | 1.13 | .76 | .33 | AMP |
| 670 | -5.89 | 7.77 | 616 | 383.20 | 127.84 | 244.88 | 355.21 | 9.58 | 162.16 | 69.94 | 134.41 | PHASE |
| 671 | -7.85 | 8.84 | 616 | 2.94 | 3.32 | .55 | 1.51 | 1.63 | 1.18 | .66 | .25 | AMP |
| 672 | -8.81 | 9.63 | 616 | 328.62 | 127.87 | 214.12 | 342.92 | 353.17 | 135.13 | 37.14 | 66.8# | PHASE |
| 673 | -1.22 | 4.76 | 616 | 3.2# | 3.21 | .74 | 1.39 | 1.6# | 1.23 | .57 | .34 | AMP |
| 674 | -2.83 | 4.46 | 616 | 348.84 | 132.5# | 194.29 | 329.41 | 343.7# | 115.28 | .76 | 354.88 | PHASE |
| 675 | -4.58 | 4.46 | 615 | 3.53 | 3.27 | .83 | 1.34 | 1.67 | 1.3# | .51 | .39 | AMP |
| 676 | -6.48 | 5.59 | 616 | 354.86 | 143.55 | 198.14 | 344.18 | 5.69 | 135.27 | 25.48 | 15.36 | PHASE |
| 677 | -8.21 | 7.24 | 616 | 3.9# | 3.32 | .83 | 1.27 | 1.69 | 1.32 | .45 | .4# | AMP |
| 678 | -9.29 | 8.24 | 616 | 1.82 | 148.97 | 198.11 | 348.69 | 12.91 | 138.19 | 28.87 | 24.12 | PHASE |
| | | | | 3.96 | 3.4# | .36 | 1.34 | 1.19 | .66 | .42 | .88 | AMP |
| | | | | 267.5# | 185.79 | 387.55 | 329.1# | 356.53 | 132.19 | 29.98 | 76.19 | PHASE |
| | | | | 3.24 | 2.78 | .49 | 1.39 | 1.16 | .58 | .42 | .12 | AMP |
| | | | | 281.58 | 121.16 | 296.41 | 345.88 | 14.27 | 152.66 | 68.58 | 183.28 | PHASE |
| | | | | 2.63 | 2.36 | .5# | 1.37 | 1.2# | .7# | .35 | .14 | AMP |
| | | | | 295.53 | 128.94 | 259.24 | 337.28 | 359.12 | 132.76 | 24.87 | 144.68 | PHASE |
| | | | | 2.3# | 2.17 | .64 | 1.26 | 1.37 | .8# | .35 | .86 | AMP |
| | | | | 318.88 | 133.52 | 223.35 | 328.76 | 343.57 | 188.53 | 336.5# | 16.81 | PHASE |
| | | | | 2.7# | 2.3# | .77 | 1.18 | 1.36 | .87 | .37 | .28 | AMP |
| | | | | 351.28 | 157.55 | 238.75 | 338.67 | 12.98 | 144.16 | 351.62 | 34.68 | PHASE |
| | | | | 3.62 | 2.57 | .98 | 1.14 | 1.45 | .98 | .38 | .26 | AMP |
| | | | | 7.56 | 168.68 | 285.88 | 316.21 | 356.31 | 119.54 | 289.87 | 347.85 | PHASE |
| | | | | 4.27 | 2.71 | 1.84 | 1.1# | 1.45 | 1.83 | .42 | .31 | AMP |
| | | | | 15.64 | 168.59 | 286.44 | 324.38 | 7.7# | 132.84 | 293.61 | 4.89 | PHASE |
| | | | | 2.53 | 1.82 | .43 | 1.86 | .87 | .44 | .25 | .31 | AMP |
| | | | | 278.14 | 186.39 | 281.86 | 328.65 | 357.35 | 185.94 | 9.3# | 67.82 | PHASE |
| | | | | 1.81 | 1.46 | .39 | 1.85 | .92 | .58 | .27 | .23 | AMP |
| | | | | 298.49 | 138.57 | 258.92 | 327.88 | .63 | 189.16 | 12.38 | 83.47 | PHASE |
| | | | | 1.59 | 1.48 | .54 | .99 | 1.14 | .51 | .27 | .21 | AMP |
| | | | | 328.75 | 159.11 | 258.87 | 348.54 | 17.61 | 127.37 | 7.94 | 47.15 | PHASE |
| | | | | 2.23 | 1.78 | .68 | .99 | 1.28 | .51 | .38 | .28 | AMP |
| | | | | 357.84 | 167.27 | 219.36 | 388.38 | 346.98 | 187.48 | 281.6# | 328.78 | PHASE |
| | | | | 3.21 | 2.12 | .98 | .99 | 1.21 | .66 | .47 | .36 | AMP |
| | | | | 15.42 | 188.2# | 216.27 | 318.6# | 1.57 | 129.82 | 271.51 | 352.79 | PHASE |
| | | | | 4.82 | 2.44 | 1.87 | 1.83 | 1.28 | .73 | .53 | .33 | AMP |
| | | | | 19.69 | 179.93 | 284.26 | 383.36 | 355.42 | 123.73 | 261.75 | 351.87 | PHASE |

TABLE VIII.- Continued

(f) Concluded

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 2# | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 653 | -3.87 | 12.74 | 615 | 3.44 | 2.81 | 2.14 | 3.25 | 3.89 | 1.56 | .23 | 2.68 AMP |
| | | | | 123.55 | 338.99 | 257.72 | 168.51 | 265.83 | 359.13 | 133.41 | 265.96 PHASE |
| 654 | -1.96 | 13.33 | 615 | 2.72 | 2.48 | 1.94 | 3.47 | 3.78 | 1.65 | .16 | 2.18 AMP |
| | | | | 146.24 | 344.23 | 242.54 | 137.19 | 237.27 | 341.89 | 288.18 | 237.86 PHASE |
| 655 | -.18 | 15.23 | 615 | 2.81 | 2.39 | 1.55 | 3.78 | 4.44 | 1.52 | .24 | 2.18 AMP |
| | | | | 175.88 | 1.58 | 242.12 | 148.16 | 251.79 | 355.55 | 388.88 | 246.67 PHASE |
| 656 | .95 | 16.19 | 614 | 3.15 | 2.47 | 1.32 | 3.82 | 4.71 | 1.39 | .43 | 2.13 AMP |
| | | | | 187.77 | 18.51 | 242.71 | 143.33 | 265.18 | 9.22 | 381.78 | 255.81 PHASE |
| 657 | 1.95 | 16.66 | 615 | 3.73 | 2.58 | 1.88 | 3.88 | 4.93 | 1.25 | .34 | 1.98 AMP |
| | | | | 192.36 | .87 | 219.17 | 118.28 | 234.78 | 336.32 | 258.73 | 281.34 PHASE |
| 658 | 2.99 | 17.61 | 615 | 4.34 | 2.66 | .77 | 3.92 | 5.29 | 1.34 | .52 | 1.86 AMP |
| | | | | 199.29 | 5.77 | 282.14 | 117.28 | 239.23 | 331.54 | 268.55 | 197.83 PHASE |
| 659 | -2.48 | 9.29 | 617 | 2.72 | 1.77 | 2.16 | 2.67 | 2.72 | .68 | .65 | 1.82 AMP |
| | | | | 81.68 | 315.41 | 198.98 | 134.76 | 226.51 | 312.24 | 95.87 | 216.39 PHASE |
| 660 | -.78 | 9.49 | 616 | 1.79 | 1.29 | 1.99 | 2.95 | 3.24 | .88 | .48 | .97 AMP |
| | | | | 185.88 | 331.25 | 179.93 | 116.43 | 287.96 | 289.17 | 76.85 | 195.83 PHASE |
| 661 | .84 | 18.71 | 616 | 1.17 | 2.18 | 3.83 | 3.83 | .76 | .14 | .64 | .64 AMP |
| | | | | 151.22 | 2.62 | 187.19 | 133.27 | 236.14 | 321.47 | 183.52 | 246.98 PHASE |
| 662 | 2.61 | 11.66 | 616 | 1.81 | 1.33 | 1.97 | 3.22 | 4.28 | .66 | .19 | .74 AMP |
| | | | | 197.86 | 16.48 | 163.87 | 117.41 | 222.38 | 318.23 | 181.76 | 194.91 PHASE |
| 663 | 4.53 | 11.86 | 616 | 3.15 | 1.79 | 2.85 | 3.58 | 4.46 | .75 | .54 | .98 AMP |
| | | | | 213.52 | 21.87 | 136.56 | 187.95 | 214.72 | 388.47 | 43.82 | 151.68 PHASE |
| 664 | 5.48 | 13.33 | 617 | 4.12 | 2.82 | 2.87 | 3.58 | 4.71 | .99 | .67 | .99 AMP |
| | | | | 219.74 | 38.52 | 137.45 | 123.58 | 235.56 | 323.88 | 62.35 | 181.53 PHASE |
| 665 | 6.31 | 14.96 | 615 | 5.83 | 2.27 | 2.28 | 3.44 | 4.73 | 1.89 | .81 | .95 AMP |
| | | | | 222.45 | 35.58 | 131.47 | 127.48 | 248.31 | 329.41 | 49.47 | 181.75 PHASE |
| 666 | -1.31 | 7.91 | 616 | 2.77 | .79 | 2.31 | 1.87 | 2.57 | .65 | .49 | .64 AMP |
| | | | | 55.77 | 332.52 | 165.34 | 132.17 | 285.99 | 291.63 | 74.68 | 236.41 PHASE |
| 667 | .27 | 7.76 | 616 | 1.75 | .68 | 2.48 | 2.87 | 2.76 | .71 | .48 | .41 AMP |
| | | | | 59.25 | 31.79 | 169.58 | 148.97 | 222.23 | 388.65 | 72.92 | 274.86 PHASE |
| 668 | 1.98 | 9.48 | 616 | .58 | .87 | 2.27 | 2.11 | 3.41 | .64 | .89 | .47 AMP |
| | | | | 49.82 | 58.84 | 153.88 | 124.66 | 212.12 | 319.99 | 358.67 | 269.96 PHASE |
| 669 | 3.84 | 8.89 | 616 | .98 | 1.24 | 2.32 | 2.37 | 3.65 | .62 | .39 | .45 AMP |
| | | | | 223.19 | 44.95 | 138.39 | 188.86 | 198.81 | 385.51 | 48.75 | 197.85 PHASE |
| 670 | 5.59 | 18.76 | 616 | 2.56 | 1.72 | 2.56 | 2.53 | 3.39 | .72 | .74 | .71 AMP |
| | | | | 228.18 | 57.81 | 135.72 | 135.14 | 231.98 | 358.63 | 64.78 | 286.88 PHASE |
| 671 | 7.68 | 13.53 | 616 | 4.65 | 2.28 | 3.81 | 2.75 | 3.74 | 1.18 | .65 | .93 AMP |
| | | | | 226.54 | 47.63 | 186.84 | 119.22 | 213.19 | 338.66 | 48.79 | 176.98 PHASE |
| 672 | 8.62 | 14.64 | 616 | 5.83 | 2.48 | 3.28 | 2.76 | 3.78 | 1.48 | .71 | 1.82 AMP |
| | | | | 226.66 | 58.33 | 186.51 | 129.86 | 222.99 | 343.45 | 64.34 | 186.24 PHASE |
| 673 | 1.53 | 8.65 | 616 | 2.56 | .89 | 2.75 | 1.25 | 2.44 | .94 | .17 | .65 AMP |
| | | | | 19.95 | 78.85 | 139.21 | 123.85 | 194.87 | 275.26 | 236.17 | 235.39 PHASE |
| 674 | 3.15 | 9.25 | 616 | 1.38 | 1.36 | 2.49 | 1.45 | 3.88 | .84 | .45 | .52 AMP |
| | | | | 5.25 | 79.83 | 138.82 | 119.91 | 288.87 | 291.17 | 237.88 | 257.86 PHASE |
| 675 | 4.81 | 8.93 | 615 | 1.17 | 1.75 | 2.64 | 1.76 | 3.14 | .65 | .32 | .34 AMP |
| | | | | 297.35 | 88.14 | 139.58 | 135.15 | 223.17 | 384.43 | 315.51 | 258.65 PHASE |
| 676 | 6.78 | 9.96 | 616 | 2.78 | 2.21 | 3.18 | 1.96 | 2.92 | .49 | .22 | .55 AMP |
| | | | | 258.89 | 62.27 | 187.58 | 115.89 | 198.89 | 314.18 | 53.59 | 182.84 PHASE |
| 677 | 8.55 | 11.47 | 616 | 4.68 | 2.64 | 3.57 | 2.88 | 2.82 | .98 | .42 | .67 AMP |
| | | | | 241.47 | 61.54 | 182.66 | 127.69 | 282.23 | 354.44 | 77.84 | 191.74 PHASE |
| 678 | 9.62 | 13.33 | 616 | 6.81 | 2.95 | 3.98 | 2.16 | 2.93 | 1.16 | .58 | .92 AMP |
| | | | | 235.87 | 53.72 | 89.99 | 122.48 | 195.76 | 339.73 | 98.94 | 184.68 PHASE |

TABLE VIII.- Continued

(g) $\mu = 0.40$; $M_T = 0.68$

| PT. | A1 | B1 | THETA | CL/SIGMA | CD/SIGMA | CB/SIGMA |
|-----|------|-----|-------|----------|----------|----------|
| 693 | .2 | 2.5 | 2.0 | .02082 | .00302 | .00155 |
| 694 | -.1 | 3.7 | 3.9 | .03370 | .00287 | .00170 |
| 695 | -.5 | 5.2 | 6.0 | .04604 | .00244 | .00200 |
| 696 | -.9 | 6.3 | 7.9 | .05821 | .00229 | .00249 |
| 697 | -1.4 | 7.5 | 9.8 | .07007 | .00188 | .00309 |
| 698 | .3 | 2.5 | 3.9 | .01059 | .00231 | .00189 |
| 699 | -.1 | 3.7 | 6.0 | .02412 | .00080 | .00248 |
| 700 | -.5 | 4.9 | 7.9 | .03520 | -.00034 | .00311 |
| 701 | -1.0 | 6.0 | 9.9 | .04761 | -.00168 | .00380 |
| 702 | -1.6 | 7.2 | 11.9 | .06024 | -.00316 | .00475 |
| 703 | -2.2 | 8.4 | 13.8 | .07182 | -.00478 | .00575 |
| 704 | -.1 | 4.0 | 7.9 | .01348 | .00129 | .00241 |
| 705 | -.4 | 5.3 | 10.0 | .02796 | -.00155 | .00356 |
| 706 | -1.1 | 6.4 | 11.9 | .03838 | -.00363 | .00455 |
| 707 | -1.5 | 7.7 | 13.9 | .04997 | -.00617 | .00574 |
| 708 | -2.3 | 8.6 | 15.9 | .06293 | -.00863 | .00719 |
| 709 | -2.5 | 9.0 | 16.9 | .06917 | -.00994 | .00805 |
| 710 | -2.9 | 9.6 | 17.9 | .07599 | -.01159 | .00889 |

TABLE VIII.- Continued

(g) Continued

| FLAPWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|-------------|
| RUN NO 21 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 48.68 | 38.83 | 658 | 14.84 | 18.89 | 18.32 | 7.82 | 9.84 | 3.16 | 4.49 | 5.57 AMP |
| | | | | 155.98 | 333.82 | 63.69 | 2.26 | 121.78 | 7.59 | 231.33 | 61.61 PHASE |
| 694 | 42.17 | 39.29 | 658 | 14.71 | 18.59 | 18.12 | 7.41 | 9.74 | 3.13 | 4.42 | 5.92 AMP |
| | | | | 158.25 | 322.87 | 46.19 | 342.81 | 94.88 | 335.28 | 281.15 | 21.28 PHASE |
| 695 | 43.79 | 39.54 | 658 | 15.88 | 18.47 | 9.97 | 7.26 | 18.26 | 2.68 | 3.81 | 5.89 AMP |
| | | | | 148.76 | 322.88 | 41.31 | 334.38 | 98.59 | 339.45 | 288.93 | 18.52 PHASE |
| 696 | 45.19 | 38.52 | 649 | 15.34 | 18.84 | 9.76 | 7.53 | 18.34 | 2.35 | 2.44 | 5.91 AMP |
| | | | | 158.42 | 328.81 | 48.71 | 345.86 | 187.82 | 357.69 | 222.12 | 47.99 PHASE |
| 697 | 46.61 | 37.68 | 649 | 15.38 | 18.77 | 9.57 | 7.43 | 18.64 | 2.29 | 1.54 | 4.94 AMP |
| | | | | 144.55 | 321.68 | 34.48 | 326.23 | 88.98 | 327.84 | 188.68 | 23.25 PHASE |
| 698 | 48.92 | 27.95 | 658 | 12.93 | 8.32 | 7.25 | 3.64 | 7.88 | 2.85 | 2.94 | 2.68 AMP |
| | | | | 154.49 | 331.35 | 27.57 | 328.98 | 67.28 | 321.64 | 218.85 | 13.42 PHASE |
| 699 | 42.75 | 28.28 | 658 | 13.24 | 8.82 | 7.74 | 4.28 | 8.32 | 2.83 | 2.78 | 2.61 AMP |
| | | | | 155.64 | 336.27 | 31.49 | 333.86 | 72.64 | 329.89 | 236.61 | 31.89 PHASE |
| 788 | 44.23 | 29.69 | 651 | 13.75 | 9.48 | 7.89 | 5.84 | 9.18 | 2.71 | 2.58 | 2.85 AMP |
| | | | | 154.58 | 337.46 | 27.81 | 332.59 | 73.51 | 324.73 | 238.82 | 47.28 PHASE |
| 781 | 45.89 | 29.78 | 658 | 13.98 | 9.41 | 8.31 | 5.58 | 9.58 | 2.58 | 2.35 | 2.99 AMP |
| | | | | 148.73 | 338.73 | 16.67 | 317.88 | 68.49 | 384.65 | 221.89 | 33.64 PHASE |
| 782 | 47.58 | 29.43 | 658 | 13.85 | 9.58 | 8.36 | 5.69 | 9.72 | 2.94 | 1.74 | 2.28 AMP |
| | | | | 146.74 | 333.44 | 18.34 | 318.38 | 69.62 | 388.58 | 228.53 | 48.34 PHASE |
| 783 | 49.83 | 28.18 | 658 | 13.89 | 9.55 | 8.17 | 5.68 | 9.65 | 3.23 | 1.12 | 1.58 AMP |
| | | | | 138.74 | 325.43 | .79 | 297.89 | 51.74 | 298.58 | 282.12 | 14.64 PHASE |
| 784 | 43.12 | 23.67 | 649 | 11.92 | 7.71 | 4.79 | 2.28 | 6.26 | 1.78 | 1.78 | 1.89 AMP |
| | | | | 158.25 | 339.38 | 13.69 | 351.74 | 58.78 | 331.28 | 248.62 | 15.18 PHASE |
| 785 | 45.88 | 24.86 | 658 | 12.16 | 7.88 | 5.25 | 3.21 | 7.45 | 1.65 | 1.64 | 1.52 AMP |
| | | | | 154.26 | 337.99 | 8.78 | 339.13 | 47.38 | 388.82 | 244.68 | 38.94 PHASE |
| 786 | 46.48 | 25.88 | 658 | 12.28 | 8.13 | 5.68 | 3.83 | 7.76 | 1.87 | 1.49 | 1.78 AMP |
| | | | | 151.32 | 338.92 | 7.28 | 336.23 | 58.18 | 382.21 | 237.39 | 38.17 PHASE |
| 787 | 48.87 | 25.34 | 658 | 12.37 | 8.71 | 5.66 | 4.44 | 7.63 | 1.98 | 1.22 | 1.37 AMP |
| | | | | 147.68 | 348.39 | 4.89 | 334.81 | 53.97 | 382.83 | 226.43 | 48.25 PHASE |
| 788 | 49.89 | 24.55 | 658 | 12.12 | 8.98 | 5.47 | 4.67 | 8.87 | 1.91 | .76 | 1.46 AMP |
| | | | | 139.86 | 334.82 | 352.86 | 318.98 | 42.83 | 285.56 | 196.91 | 19.18 PHASE |
| 789 | 58.84 | 25.21 | 658 | 12.88 | 9.33 | 5.49 | 4.98 | 8.28 | 1.95 | .56 | 1.34 AMP |
| | | | | 134.53 | 333.73 | 346.28 | 312.39 | 38.48 | 276.28 | 182.81 | 18.91 PHASE |
| 718 | 51.92 | 24.99 | 651 | 11.94 | 9.49 | 5.18 | 4.78 | 8.22 | 1.86 | .45 | 1.31 AMP |
| | | | | 129.22 | 332.88 | 348.12 | 387.35 | 39.97 | 288.47 | 188.83 | 2.67 PHASE |

| CHORDWISE 25 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 21 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 63.33 | 55.97 | 658 | 18.68 | 18.98 | 6.12 | 9.12 | 4.29 | 8.48 | 6.82 | 1.79 AMP |
| | | | | 269.54 | 145.69 | 288.88 | 85.74 | 2.81 | 87.89 | 131.64 | 94.81 PHASE |
| 694 | 61.78 | 68.29 | 658 | 21.71 | 14.96 | 18.51 | 18.38 | 5.45 | 11.66 | 9.89 | 1.37 AMP |
| | | | | 277.48 | 141.58 | 275.85 | 59.88 | 342.78 | 68.83 | 94.59 | 79.63 PHASE |
| 695 | 59.52 | 69.32 | 658 | 25.87 | 19.55 | 14.71 | 9.85 | 5.76 | 14.28 | 18.65 | 1.88 AMP |
| | | | | 292.59 | 144.88 | 276.83 | 43.75 | 342.94 | 52.34 | 92.13 | 187.19 PHASE |
| 696 | 57.73 | 88.44 | 649 | 31.33 | 25.53 | 18.33 | 12.88 | 4.97 | 16.74 | 12.62 | 1.69 AMP |
| | | | | 318.53 | 156.15 | 284.98 | 49.67 | 338.31 | 88.18 | 117.52 | 156.97 PHASE |
| 697 | 55.92 | 86.17 | 649 | 39.17 | 29.42 | 22.82 | 13.35 | 6.26 | 19.28 | 14.33 | 2.21 AMP |
| | | | | 328.79 | 154.51 | 272.48 | 28.47 | 298.27 | 98.18 | 182.68 | 152.48 PHASE |
| 698 | 68.77 | 49.69 | 658 | 17.15 | 9.43 | 6.96 | 9.64 | 7.66 | 5.46 | 3.83 | .91 AMP |
| | | | | 268.84 | 135.36 | 256.61 | 78.83 | 388.83 | 58.94 | 68.28 | 29.21 PHASE |
| 699 | 61.25 | 52.35 | 658 | 18.13 | 12.34 | 11.17 | 18.85 | 7.73 | 7.17 | 5.29 | .95 AMP |
| | | | | 278.68 | 144.42 | 268.87 | 67.57 | 324.32 | 65.26 | 83.56 | 72.35 PHASE |
| 788 | 62.12 | 61.78 | 651 | 22.12 | 17.78 | 13.91 | 12.21 | 8.52 | 7.16 | 6.25 | .48 AMP |
| | | | | 294.16 | 152.17 | 278.43 | 54.25 | 294.21 | 71.96 | 98.33 | 96.88 PHASE |
| 781 | 62.85 | 76.81 | 658 | 27.59 | 23.46 | 18.89 | 14.89 | 18.49 | 9.38 | 7.65 | 1.67 AMP |
| | | | | 389.76 | 158.74 | 255.98 | 38.97 | 278.12 | 84.58 | 71.85 | 139.82 PHASE |
| 782 | 61.93 | 87.99 | 658 | 36.28 | 26.25 | 23.21 | 15.95 | 18.53 | 12.83 | 8.62 | 2.24 AMP |
| | | | | 325.71 | 168.42 | 258.76 | 43.41 | 298.78 | 111.58 | 91.98 | 168.89 PHASE |
| 783 | 61.27 | 95.78 | 658 | 45.83 | 29.57 | 28.98 | 16.74 | 9.41 | 16.22 | 9.54 | 2.25 AMP |
| | | | | 338.48 | 157.95 | 247.37 | 26.55 | 268.93 | 181.93 | 75.74 | 139.88 PHASE |
| 784 | 59.22 | 39.67 | 649 | 13.96 | 8.78 | 7.88 | 18.23 | 6.35 | 1.73 | 2.89 | .46 AMP |
| | | | | 262.24 | 168.24 | 249.29 | 75.52 | 291.67 | 23.86 | 69.98 | 47.27 PHASE |
| 785 | 61.58 | 51.42 | 658 | 16.36 | 14.88 | 18.72 | 12.29 | 7.94 | 3.62 | 4.83 | .68 AMP |
| | | | | 298.53 | 157.38 | 249.54 | 44.81 | 259.21 | 31.89 | 52.98 | 163.91 PHASE |
| 786 | 63.33 | 64.12 | 658 | 21.83 | 17.89 | 15.33 | 15.89 | 18.84 | 5.58 | 4.98 | 1.27 AMP |
| | | | | 311.27 | 165.18 | 245.17 | 37.82 | 254.38 | 83.32 | 64.62 | 153.48 PHASE |
| 787 | 65.11 | 76.42 | 658 | 31.57 | 21.78 | 21.62 | 18.42 | 11.38 | 8.88 | 5.71 | 1.68 AMP |
| | | | | 327.88 | 172.89 | 246.61 | 39.24 | 258.34 | 118.97 | 83.71 | 178.47 PHASE |
| 788 | 66.39 | 93.96 | 658 | 44.14 | 25.47 | 29.28 | 18.78 | 11.36 | 7.42 | 6.23 | 1.88 AMP |
| | | | | 336.93 | 171.25 | 248.28 | 27.19 | 228.61 | 97.92 | 74.84 | 178.61 PHASE |
| 789 | 67.17 | 108.66 | 658 | 53.14 | 27.37 | 32.67 | 19.48 | 11.66 | 8.21 | 6.69 | 2.38 AMP |
| | | | | 341.19 | 175.48 | 238.71 | 22.76 | 214.68 | 89.88 | 69.18 | 171.88 PHASE |
| 718 | 67.62 | 116.19 | 651 | 62.86 | 29.23 | 35.68 | 17.88 | 12.53 | 6.81 | 6.51 | 2.28 AMP |
| | | | | 345.88 | 179.68 | 239.41 | 28.16 | 213.71 | 79.53 | 67.88 | 179.17 PHASE |

TABLE VIII.- Continued

(g) Continued

| TORSION 28 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|-------|--------|--------|--------------|
| RUN NO | | 21 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 4.88 | 13.53 | 650 | 5.48 | 5.86 | 1.58 | 3.17 | 2.63 | 2.18 | .98 | .76 AMP |
| 694 | 2.57 | 13.44 | 650 | 298.43 | 136.83 | 73.79 | 338.91 | 75.17 | 178.68 | 344.44 | 63.42 PHASE |
| 695 | .17 | 13.07 | 650 | 4.66 | 4.53 | 1.39 | 3.21 | 2.78 | 2.14 | 1.17 | .77 AMP |
| 696 | -2.31 | 13.39 | 649 | 296.88 | 138.21 | 39.63 | 385.57 | 44.53 | 157.23 | 316.55 | 47.88 PHASE |
| 697 | -4.92 | 13.71 | 649 | 3.97 | 4.15 | 1.25 | 2.99 | 3.18 | 2.85 | 1.21 | .77 AMP |
| 698 | 4.86 | 12.82 | 650 | 313.54 | 132.83 | 27.81 | 381.14 | 33.35 | 153.46 | 325.58 | 46.89 PHASE |
| 699 | 1.71 | 18.49 | 650 | 3.96 | 3.81 | .84 | 2.93 | 3.47 | 1.78 | 1.48 | .84 AMP |
| 700 | -4.48 | 18.41 | 651 | 337.31 | 147.88 | 13.42 | 387.83 | 58.12 | 183.73 | 13.27 | 96.48 PHASE |
| 701 | -2.98 | 9.91 | 650 | 4.74 | 3.62 | 2.98 | 4.21 | 1.38 | 1.36 | .76 | .76 AMP |
| 702 | -5.47 | 18.81 | 650 | 354.74 | 144.38 | 337.69 | 286.49 | 35.98 | 157.88 | 9.42 | 75.24 PHASE |
| 703 | -7.92 | 11.68 | 650 | 5.29 | 4.38 | 2.86 | 2.83 | 1.88 | 1.83 | .71 | .35 AMP |
| 704 | 1.15 | 8.98 | 649 | 263.98 | 189.42 | 2.86 | 289.34 | 36.58 | 115.27 | 327.65 | .33 PHASE |
| 705 | -1.42 | 8.93 | 650 | 3.98 | 3.68 | 2.11 | 2.94 | 1.87 | .79 | 1.87 | .22 AMP |
| 706 | -3.61 | 8.88 | 650 | 275.88 | 115.17 | 357.85 | 292.23 | 34.45 | 128.78 | 345.96 | 37.12 PHASE |
| 707 | -5.99 | 8.56 | 650 | 2.94 | 2.95 | 2.34 | 2.83 | 2.25 | .71 | 1.48 | .52 AMP |
| 708 | -8.63 | 9.56 | 650 | 284.66 | 117.82 | 343.95 | 289.23 | 28.73 | 151.56 | .74 | 189.68 PHASE |
| 709 | -11.56 | 11.88 | 651 | 2.38 | 2.47 | 2.12 | 2.93 | 2.89 | .65 | 1.43 | .56 AMP |
| 710 | -11.56 | 11.88 | 651 | 313.93 | 121.23 | 329.74 | 277.88 | 21.84 | 188.64 | 342.23 | 186.88 PHASE |
| 711 | -11.56 | 11.88 | 651 | 2.65 | 2.29 | 2.18 | 3.22 | 3.52 | .74 | 1.28 | .28 AMP |
| 712 | -11.56 | 11.88 | 651 | 353.97 | 129.59 | 324.86 | 282.65 | 36.16 | 115.27 | 346.48 | 146.53 PHASE |
| 713 | -11.56 | 11.88 | 651 | 3.87 | 2.25 | 2.24 | 3.26 | 4.83 | .98 | .88 | .19 AMP |
| 714 | -11.56 | 11.88 | 651 | 14.28 | 136.29 | 385.28 | 265.64 | 24.86 | 96.94 | 329.73 | 136.16 PHASE |
| 715 | -11.56 | 11.88 | 651 | 3.86 | 2.11 | 2.37 | 2.11 | 1.49 | .46 | .58 | .14 AMP |
| 716 | -11.56 | 11.88 | 651 | 268.58 | 111.14 | 332.67 | 289.77 | 17.79 | 82.84 | 346.17 | 147.78 PHASE |
| 717 | -11.56 | 11.88 | 651 | 2.61 | 1.47 | 2.32 | 1.99 | 1.98 | .34 | 1.88 | .48 AMP |
| 718 | -11.56 | 11.88 | 651 | 273.93 | 113.23 | 316.15 | 276.72 | 1.92 | 115.49 | 336.88 | 189.73 PHASE |
| 719 | -11.56 | 11.88 | 651 | 1.82 | 1.11 | 2.51 | 2.16 | 2.41 | .21 | .88 | .59 AMP |
| 720 | -11.56 | 11.88 | 651 | 295.97 | 122.89 | 310.95 | 275.41 | 13.56 | 135.49 | 337.88 | 114.26 PHASE |
| 721 | -11.56 | 11.88 | 651 | 1.84 | 1.88 | 2.82 | 2.28 | 2.66 | .19 | .78 | .39 AMP |
| 722 | -11.56 | 11.88 | 651 | 344.14 | 145.14 | 383.55 | 278.53 | 28.42 | 156.13 | 338.37 | 185.89 PHASE |
| 723 | -11.56 | 11.88 | 651 | 3.07 | 1.18 | 3.19 | 2.32 | 2.78 | .50 | .78 | .46 AMP |
| 724 | -11.56 | 11.88 | 651 | 13.30 | 157.25 | 283.37 | 268.86 | 17.96 | 134.24 | 384.83 | 75.83 PHASE |
| 725 | -11.56 | 11.88 | 651 | 4.83 | 1.27 | 3.53 | 2.25 | 2.89 | .63 | .76 | .49 AMP |
| 726 | -11.56 | 11.88 | 651 | 28.63 | 168.67 | 276.91 | 266.85 | 16.78 | 133.82 | 297.89 | 71.62 PHASE |
| 727 | -11.56 | 11.88 | 651 | 5.23 | 1.32 | 3.78 | 1.98 | 2.83 | .82 | .77 | .52 AMP |
| 728 | -11.56 | 11.88 | 651 | 24.93 | 169.83 | 275.72 | 266.64 | 15.19 | 128.76 | 287.73 | 78.91 PHASE |

TABLE VIII.- Continued

(g) Continued

| FLAPWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------------|
| RUN NO 21 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 22.14 | 36.21 | 658 | 19.45 | 14.48 | 18.66 | 6.28 | 4.18 | .93 | .45 | 2.86 AMP |
| | | | | 147.28 | 333.87 | 58.58 | 353.88 | 133.36 | 22.89 | 311.21 | 229.22 PHASE |
| 694 | 23.54 | 37.26 | 658 | 28.51 | 14.96 | 18.81 | 6.38 | 3.98 | .94 | .48 | 2.14 AMP |
| | | | | 141.97 | 323.82 | 42.84 | 334.99 | 185.98 | 353.91 | 268.35 | 188.58 PHASE |
| 695 | 25.12 | 37.24 | 658 | 21.11 | 15.85 | 11.83 | 6.22 | 4.17 | .85 | .35 | 2.88 AMP |
| | | | | 141.13 | 321.84 | 38.53 | 328.15 | 182.37 | 1.28 | 254.32 | 186.94 PHASE |
| 696 | 26.48 | 38.35 | 649 | 22.88 | 15.78 | 11.38 | 6.18 | 4.26 | .75 | .51 | 2.13 AMP |
| | | | | 143.77 | 327.38 | 47.14 | 339.96 | 117.89 | 37.83 | 262.68 | 214.89 PHASE |
| 697 | 27.78 | 38.53 | 649 | 22.63 | 15.98 | 11.73 | 5.89 | 4.52 | .53 | .71 | 1.87 AMP |
| | | | | 139.63 | 319.74 | 35.81 | 321.35 | 98.32 | 31.78 | 239.84 | 191.45 PHASE |
| 698 | 23.39 | 26.58 | 658 | 16.96 | 11.71 | 7.56 | 3.78 | 3.53 | .76 | .25 | 1.13 AMP |
| | | | | 141.67 | 331.92 | 33.94 | 322.33 | 69.98 | 324.68 | 222.78 | 184.16 PHASE |
| 699 | 25.89 | 28.29 | 658 | 17.72 | 12.32 | 8.22 | 4.14 | 3.74 | .87 | .26 | .99 AMP |
| | | | | 143.52 | 335.58 | 39.57 | 328.48 | 74.53 | 334.18 | 238.18 | 199.59 PHASE |
| 700 | 26.43 | 29.79 | 651 | 18.84 | 13.22 | 8.55 | 4.61 | 4.18 | .81 | .31 | 1.88 AMP |
| | | | | 143.34 | 336.38 | 38.57 | 329.81 | 75.48 | 342.85 | 239.43 | 212.76 PHASE |
| 701 | 27.89 | 32.85 | 658 | 19.73 | 13.72 | 9.78 | 4.93 | 4.26 | .98 | .32 | .98 AMP |
| | | | | 148.89 | 327.94 | 27.89 | 314.88 | 62.88 | 326.98 | 226.57 | 198.59 PHASE |
| 702 | 29.38 | 33.23 | 658 | 28.37 | 14.83 | 18.25 | 4.88 | 4.35 | .79 | .45 | .67 AMP |
| | | | | 148.76 | 329.79 | 38.45 | 316.31 | 70.21 | 325.57 | 239.55 | 218.11 PHASE |
| 703 | 38.84 | 34.19 | 658 | 21.25 | 14.34 | 18.82 | 4.61 | 4.48 | .72 | .53 | .45 AMP |
| | | | | 135.58 | 321.69 | 17.84 | 298.98 | 58.34 | 299.87 | 215.83 | 171.88 PHASE |
| 704 | 26.37 | 21.58 | 649 | 14.99 | 18.45 | 5.22 | 2.85 | 3.17 | .48 | .16 | .68 AMP |
| | | | | 143.48 | 341.38 | 32.23 | 333.56 | 54.74 | 381.86 | 224.76 | 198.28 PHASE |
| 705 | 28.81 | 23.22 | 658 | 15.98 | 18.89 | 6.13 | 2.73 | 3.88 | .48 | .28 | .68 AMP |
| | | | | 141.48 | 337.53 | 28.17 | 324.19 | 43.95 | 381.29 | 197.26 | 194.16 PHASE |
| 706 | 29.42 | 24.68 | 658 | 16.86 | 11.43 | 7.89 | 3.12 | 4.88 | .41 | .12 | .83 AMP |
| | | | | 148.95 | 338.14 | 28.12 | 325.48 | 46.92 | 298.63 | 225.37 | 283.88 PHASE |
| 707 | 38.95 | 26.26 | 658 | 18.88 | 12.38 | 7.88 | 3.45 | 3.94 | .37 | .11 | .47 AMP |
| | | | | 148.46 | 338.65 | 29.51 | 326.87 | 48.95 | 285.51 | 265.89 | 288.84 PHASE |
| 708 | 32.56 | 28.25 | 658 | 18.82 | 13.81 | 8.56 | 3.52 | 4.32 | .48 | .26 | .47 AMP |
| | | | | 136.91 | 332.51 | 23.16 | 312.98 | 36.11 | 241.95 | 238.95 | 173.38 PHASE |
| 709 | 33.36 | 28.79 | 658 | 19.41 | 13.59 | 8.89 | 3.61 | 4.44 | .47 | .31 | .45 AMP |
| | | | | 135.44 | 338.34 | 28.14 | 387.49 | 38.81 | 226.48 | 221.86 | 158.95 PHASE |
| 710 | 34.34 | 28.95 | 651 | 19.67 | 13.68 | 8.72 | 3.47 | 4.55 | .43 | .35 | .42 AMP |
| | | | | 134.26 | 328.77 | 18.79 | 383.46 | 32.52 | 228.89 | 243.18 | 151.67 PHASE |

| CHORDWISE 37 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 21 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 31.36 | 68.97 | 658 | 19.82 | 9.43 | 4.89 | 12.33 | 5.84 | 11.57 | 18.83 | 5.11 AMP |
| | | | | 288.61 | 144.57 | 323.83 | 76.58 | 2.48 | 84.86 | 129.43 | 192.79 PHASE |
| 694 | 38.88 | 72.46 | 658 | 22.52 | 13.87 | 8.15 | 19.56 | 6.37 | 17.54 | 15.23 | 6.21 AMP |
| | | | | 285.85 | 141.78 | 299.75 | 51.28 | 348.23 | 56.96 | 92.96 | 155.66 PHASE |
| 695 | 27.53 | 84.67 | 658 | 26.98 | 17.18 | 12.96 | 16.51 | 6.32 | 22.84 | 17.37 | 6.56 AMP |
| | | | | 295.91 | 145.22 | 298.69 | 41.18 | 338.26 | 46.82 | 91.53 | 153.88 PHASE |
| 696 | 25.31 | 97.11 | 649 | 32.34 | 22.41 | 16.82 | 28.21 | 4.92 | 26.88 | 19.41 | 5.94 AMP |
| | | | | 318.74 | 158.26 | 389.83 | 58.64 | 318.54 | 82.85 | 121.22 | 187.98 PHASE |
| 697 | 22.76 | 182.73 | 649 | 39.84 | 26.37 | 28.66 | 22.87 | 7.56 | 38.93 | 21.68 | 4.84 AMP |
| | | | | 318.24 | 157.24 | 298.82 | 31.89 | 279.42 | 86.86 | 187.92 | 157.97 PHASE |
| 698 | 29.88 | 58.69 | 658 | 15.29 | 7.69 | 3.81 | 12.77 | 11.86 | 7.84 | 6.39 | 1.83 AMP |
| | | | | 272.66 | 139.13 | 269.86 | 68.11 | 383.89 | 45.98 | 64.66 | 133.83 PHASE |
| 699 | 28.92 | 59.12 | 658 | 17.83 | 18.34 | 7.73 | 15.47 | 11.42 | 18.83 | 9.47 | 2.33 AMP |
| | | | | 287.88 | 148.58 | 282.77 | 59.84 | 323.11 | 57.96 | 83.46 | 137.29 PHASE |
| 700 | 29.24 | 66.38 | 651 | 22.38 | 14.91 | 18.11 | 18.18 | 11.61 | 11.39 | 9.87 | 2.48 AMP |
| | | | | 298.41 | 156.61 | 287.94 | 49.84 | 295.48 | 61.44 | 91.38 | 152.38 PHASE |
| 701 | 28.39 | 77.19 | 658 | 27.42 | 19.75 | 13.68 | 22.84 | 13.71 | 13.97 | 12.38 | 3.85 AMP |
| | | | | 388.14 | 154.11 | 276.75 | 35.38 | 277.18 | 76.68 | 73.31 | 138.68 PHASE |
| 702 | 27.71 | 86.62 | 658 | 34.57 | 22.51 | 18.32 | 24.12 | 13.73 | 19.52 | 13.91 | 2.98 AMP |
| | | | | 328.57 | 163.75 | 288.46 | 48.38 | 289.27 | 188.78 | 94.37 | 141.23 PHASE |
| 703 | 25.98 | 93.69 | 658 | 41.99 | 26.84 | 23.34 | 25.59 | 12.67 | 25.21 | 15.21 | 3.88 AMP |
| | | | | 324.97 | 162.95 | 278.58 | 24.18 | 271.11 | 181.55 | 88.25 | 182.13 PHASE |
| 704 | 27.24 | 37.17 | 649 | 12.31 | 7.21 | 3.93 | 13.67 | 9.29 | 2.98 | 4.79 | 1.22 AMP |
| | | | | 274.77 | 171.21 | 248.97 | 64.38 | 295.87 | 15.42 | 68.15 | 126.83 PHASE |
| 705 | 28.45 | 49.56 | 658 | 15.76 | 11.77 | 6.35 | 17.37 | 18.28 | 6.59 | 6.36 | 1.88 AMP |
| | | | | 295.38 | 165.87 | 261.97 | 48.29 | 261.58 | 16.14 | 57.34 | 143.22 PHASE |
| 706 | 29.48 | 63.48 | 658 | 28.77 | 15.18 | 9.96 | 21.33 | 13.95 | 8.81 | 8.26 | 2.16 AMP |
| | | | | 383.48 | 171.28 | 259.12 | 35.89 | 254.83 | 74.43 | 61.91 | 137.88 PHASE |
| 707 | 38.22 | 79.33 | 658 | 28.57 | 18.78 | 14.98 | 26.11 | 14.83 | 12.63 | 9.38 | 2.78 AMP |
| | | | | 321.57 | 177.87 | 261.18 | 36.83 | 251.15 | 189.58 | 81.47 | 139.68 PHASE |
| 708 | 38.19 | 94.37 | 658 | 38.84 | 22.43 | 21.89 | 27.13 | 13.85 | 11.72 | 9.41 | 3.11 AMP |
| | | | | 329.41 | 179.82 | 255.29 | 25.86 | 230.13 | 108.62 | 77.14 | 132.83 PHASE |
| 709 | 38.83 | 183.96 | 658 | 44.87 | 24.58 | 23.89 | 28.54 | 13.86 | 10.79 | 9.76 | 3.37 AMP |
| | | | | 333.41 | 179.83 | 255.15 | 28.78 | 216.23 | 93.18 | 73.28 | 137.49 PHASE |
| 710 | 29.34 | 111.48 | 651 | 52.12 | 27.27 | 26.61 | 26.65 | 14.14 | 18.58 | 8.79 | 3.15 AMP |
| | | | | 338.87 | 183.35 | 257.37 | 18.79 | 215.78 | 85.88 | 68.88 | 143.64 PHASE |

TABLE VIII.- Continued

(g) Continued

| TORSION 36 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| RUN NO | | 21 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 4.88 | 13.58 | 658 | 5.84 | 5.58 | 1.21 | 2.77 | 2.28 | 1.88 | .92 | .49 |
| 694 | 1.82 | 13.65 | 658 | 288.83 | 116.57 | 64.17 | 298.42 | 32.91 | 132.57 | 384.28 | 14.88 |
| 695 | -5.56 | 13.35 | 658 | 5.28 | 5.88 | 5.92 | 2.83 | 2.31 | 1.88 | 1.87 | .54 |
| 696 | -3.88 | 13.51 | 649 | 295.85 | 188.56 | 29.94 | 273.29 | 1.91 | 111.83 | 273.99 | 359.91 |
| 697 | -5.49 | 13.99 | 649 | 4.82 | 4.71 | 2.71 | 2.63 | 2.59 | 1.72 | 1.18 | .56 |
| 698 | 4.89 | 42.16 | 658 | 318.65 | 188.76 | 22.18 | 269.88 | 358.96 | 188.12 | 288.95 | .73 |
| 699 | 2.84 | 55.24 | 658 | 5.82 | 4.37 | .16 | 2.58 | 2.84 | 1.49 | 1.38 | .67 |
| 700 | -6.1 | 56.49 | 651 | 329.66 | 119.93 | 357.65 | 277.19 | 8.11 | 136.74 | 322.84 | 58.21 |
| 701 | -3.48 | 32.77 | 658 | 5.77 | 4.18 | 3.88 | 2.56 | 3.39 | 1.86 | 1.19 | .63 |
| 702 | -6.85 | 11.22 | 658 | 341.31 | 113.99 | 289.74 | 268.18 | 354.93 | 188.38 | 314.37 | 25.49 |
| 703 | -8.48 | 11.98 | 658 | 6.42 | 5.12 | 1.81 | 2.48 | .78 | .45 | .89 | .54 |
| 704 | 1.87 | 64.22 | 649 | 259.25 | 81.47 | 336.14 | 271.93 | 19.81 | 341.14 | .12 | 178.64 |
| 705 | -7.77 | 52.48 | 658 | 3.76 | 5.99 | .93 | 2.18 | 1.98 | 1.87 | 1.26 | .25 |
| 706 | -4.38 | 7.61 | 658 | 278.88 | 85.31 | 28.15 | 289.83 | 35.71 | 46.92 | 17.88 | 7.59 |
| 707 | -6.62 | 8.62 | 658 | 4.23 | 4.54 | 1.34 | 2.58 | 1.26 | .37 | .91 | .26 |
| 708 | -9.16 | 9.48 | 658 | 285.31 | 86.54 | 281.76 | 278.86 | 354.96 | 43.13 | 332.91 | 358.43 |
| 709 | -18.57 | 9.93 | 658 | 3.52 | 3.47 | 1.12 | 2.68 | 2.28 | .56 | 1.15 | .16 |
| 710 | -12.82 | 18.97 | 651 | 318.58 | 94.48 | 288.52 | 253.35 | 343.25 | 38.89 | 384.48 | 15.78 |
| | | | | 3.86 | 3.89 | 1.39 | 2.89 | 2.86 | .73 | 1.82 | .18 |
| | | | | 343.13 | 182.51 | 286.41 | 284.15 | 353.39 | 78.14 | 298.65 | 75.88 |
| | | | | 4.89 | 3.88 | 1.44 | 2.85 | 3.28 | .88 | .73 | .85 |
| | | | | 356.52 | 181.58 | 268.18 | 248.22 | 343.49 | 48.84 | 282.15 | 75.88 |
| | | | | 3.37 | 5.18 | .44 | 1.69 | .86 | .29 | .75 | .58 |
| | | | | 265.56 | 75.82 | 291.51 | 294.48 | 53.18 | 21.39 | 88.51 | 146.94 |
| | | | | 2.94 | 3.48 | 3.54 | 3.53 | 2.26 | 1.88 | .46 | .89 |
| | | | | 343.23 | 45.76 | 387.83 | 268.72 | 281.62 | 162.88 | 237.98 | 69.71 |
| | | | | 2.71 | 1.83 | 1.76 | 2.87 | 2.86 | .29 | .79 | .44 |
| | | | | 312.98 | 94.22 | 279.91 | 245.84 | 338.35 | 85.33 | 289.67 | 55.33 |
| | | | | 3.14 | 1.68 | 2.84 | 2.15 | 2.24 | .27 | .71 | .29 |
| | | | | 341.85 | 186.91 | 271.69 | 248.22 | 346.86 | 95.54 | 283.28 | 48.57 |
| | | | | 4.24 | 1.55 | 2.41 | 2.13 | 2.34 | .54 | .72 | .33 |
| | | | | 358.83 | 112.79 | 258.53 | 237.34 | 335.24 | 81.84 | 254.84 | 14.23 |
| | | | | 5.87 | 1.65 | 2.69 | 2.87 | 2.43 | .64 | .71 | .37 |
| | | | | 4.99 | 116.99 | 243.91 | 235.72 | 334.52 | 81.48 | 246.51 | 18.32 |
| | | | | 6.88 | 1.62 | 2.80 | 1.83 | 2.43 | .77 | .73 | .37 |
| | | | | 9.49 | 121.47 | 241.42 | 238.38 | 334.65 | 76.74 | 241.27 | 18.47 |

TABLE VIII.- Continued

(g) Continued

| FLAPWISE 51 PERCENT RADIUS | | | | | | | | | | | | |
|----------------------------|-------|---------|-----|--------|--------|-------|--------|--------|--------|--------|--------|-------|
| RUN NO 21 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 693 | 4.32 | 53.76 | 650 | 26.65 | 19.36 | 11.35 | 1.69 | 5.24 | 3.17 | 3.98 | 5.57 | AMP |
| | | | | 148.94 | 334.74 | 46.38 | 32.33 | 297.54 | 187.88 | 48.36 | 234.88 | PHASE |
| 694 | 5.88 | 56.42 | 650 | 27.91 | 20.22 | 11.68 | 1.72 | 5.17 | 2.98 | 3.86 | 5.93 | AMP |
| | | | | 136.52 | 324.15 | 31.23 | 7.55 | 269.28 | 155.63 | 18.54 | 194.98 | PHASE |
| 695 | 7.89 | 56.19 | 650 | 28.72 | 20.54 | 12.16 | 1.95 | 5.27 | 2.37 | 3.43 | 5.78 | AMP |
| | | | | 136.89 | 322.25 | 29.85 | 355.25 | 262.89 | 153.21 | 28.87 | 193.15 | PHASE |
| 696 | 9.47 | 57.71 | 649 | 29.98 | 21.37 | 12.79 | 1.96 | 5.38 | 2.89 | 2.89 | 5.88 | AMP |
| | | | | 139.43 | 327.81 | 39.78 | 2.13 | 276.39 | 168.29 | 42.12 | 223.84 | PHASE |
| 697 | 11.16 | 56.28 | 649 | 30.65 | 21.72 | 13.51 | 2.28 | 5.49 | 2.12 | 1.28 | 4.81 | AMP |
| | | | | 135.74 | 328.28 | 29.29 | 343.49 | 256.48 | 137.28 | .49 | 198.56 | PHASE |
| 698 | 6.49 | 42.98 | 650 | 23.43 | 16.32 | 7.98 | 1.46 | 3.79 | 2.26 | 2.52 | 2.75 | AMP |
| | | | | 134.62 | 338.88 | 26.34 | 1.19 | 256.43 | 134.99 | 24.49 | 186.83 | PHASE |
| 699 | 8.41 | 45.87 | 650 | 24.48 | 17.12 | 8.72 | 1.58 | 3.95 | 2.22 | 2.37 | 2.65 | AMP |
| | | | | 136.95 | 334.11 | 34.32 | 18.66 | 259.52 | 148.95 | 44.23 | 283.95 | PHASE |
| 700 | 9.95 | 46.42 | 651 | 25.73 | 18.15 | 9.48 | 1.88 | 4.15 | 2.19 | 2.14 | 2.83 | AMP |
| | | | | 137.15 | 335.12 | 35.59 | 8.66 | 258.79 | 138.64 | 44.33 | 228.48 | PHASE |
| 701 | 11.78 | 47.97 | 650 | 26.83 | 18.87 | 11.84 | 2.12 | 4.48 | 2.17 | 1.96 | 2.97 | AMP |
| | | | | 134.47 | 327.22 | 25.11 | 346.83 | 241.49 | 188.17 | 26.84 | 287.84 | PHASE |
| 702 | 13.49 | 48.88 | 650 | 27.73 | 19.48 | 11.96 | 2.19 | 4.65 | 2.49 | 1.38 | 2.28 | AMP |
| | | | | 135.87 | 328.78 | 31.81 | 348.42 | 247.18 | 114.53 | 32.85 | 219.47 | PHASE |
| 703 | 15.19 | 49.36 | 650 | 28.79 | 20.11 | 12.98 | 2.58 | 4.62 | 2.55 | .83 | 1.62 | AMP |
| | | | | 131.78 | 328.83 | 19.94 | 333.28 | 229.67 | 93.12 | 358.82 | 185.87 | PHASE |
| 704 | 18.45 | 34.19 | 649 | 28.91 | 14.67 | 5.81 | 1.89 | 2.47 | 1.86 | 1.33 | .99 | AMP |
| | | | | 136.66 | 337.33 | 38.36 | 329.53 | 255.99 | 146.17 | 49.21 | 192.25 | PHASE |
| 705 | 12.26 | 36.12 | 650 | 22.16 | 15.19 | 7.89 | 1.26 | 2.88 | 1.88 | 1.17 | 1.43 | AMP |
| | | | | 135.24 | 333.84 | 28.29 | 319.23 | 236.78 | 114.55 | 63.33 | 286.44 | PHASE |
| 706 | 13.98 | 38.28 | 650 | 23.32 | 15.83 | 8.39 | 1.38 | 3.85 | 1.21 | 1.85 | 1.67 | AMP |
| | | | | 135.38 | 333.38 | 23.74 | 316.83 | 237.81 | 188.65 | 52.98 | 213.18 | PHASE |
| 707 | 15.66 | 48.84 | 650 | 24.85 | 16.94 | 9.64 | 1.36 | 3.11 | 1.31 | .83 | 1.32 | AMP |
| | | | | 135.39 | 333.79 | 32.16 | 316.91 | 241.75 | 111.42 | 44.88 | 221.35 | PHASE |
| 708 | 17.47 | 42.31 | 650 | 26.11 | 17.82 | 11.88 | 1.47 | 3.22 | 1.28 | .41 | 1.46 | AMP |
| | | | | 132.97 | 327.26 | 27.99 | 388.36 | 228.18 | 94.61 | 8.88 | 193.48 | PHASE |
| 709 | 18.48 | 43.68 | 650 | 27.81 | 18.62 | 11.71 | 1.49 | 3.23 | 1.29 | .18 | 1.39 | AMP |
| | | | | 131.95 | 325.89 | 26.43 | 383.52 | 222.56 | 87.54 | 346.23 | 186.83 | PHASE |
| 710 | 19.48 | 44.82 | 651 | 27.52 | 18.78 | 11.99 | 1.65 | 3.81 | 1.24 | 1.12 | 1.48 | AMP |
| | | | | 131.59 | 323.59 | 26.57 | 386.28 | 222.35 | 88.16 | 7.67 | 179.12 | PHASE |

| CHORDWISE 51 PERCENT RADIUS | | | | | | | | | | | | |
|-----------------------------|-------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------|-------|
| RUN NO 21 | | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P | |
| 693 | 18.68 | 57.81 | 650 | 28.59 | 9.68 | 2.92 | 12.61 | 6.27 | 11.98 | 12.88 | 7.27 | AMP |
| | | | | 295.61 | 158.85 | 356.84 | 77.17 | 4.37 | 83.66 | 136.48 | 281.54 | PHASE |
| 694 | 9.53 | 78.92 | 650 | 24.72 | 12.71 | 6.86 | 16.61 | 6.87 | 18.85 | 17.61 | 8.19 | AMP |
| | | | | 295.31 | 152.53 | 328.76 | 51.59 | 337.66 | 55.75 | 99.21 | 162.14 | PHASE |
| 695 | 7.51 | 83.67 | 650 | 29.18 | 16.75 | 18.53 | 18.41 | 5.66 | 24.29 | 19.58 | 8.12 | AMP |
| | | | | 388.89 | 153.45 | 313.98 | 42.38 | 329.71 | 44.41 | 97.89 | 159.87 | PHASE |
| 696 | 5.74 | 98.66 | 649 | 34.78 | 28.15 | 14.23 | 22.67 | 4.98 | 29.52 | 21.38 | 6.91 | AMP |
| | | | | 311.32 | 163.41 | 323.79 | 52.12 | 298.75 | 81.28 | 128.55 | 192.78 | PHASE |
| 697 | 3.22 | 114.83 | 649 | 48.73 | 23.52 | 18.27 | 25.16 | 8.73 | 33.13 | 24.83 | 4.62 | AMP |
| | | | | 315.44 | 159.72 | 311.98 | 34.26 | 266.13 | 86.78 | 115.89 | 161.47 | PHASE |
| 698 | 8.25 | 46.61 | 650 | 16.15 | 8.12 | 1.62 | 13.34 | 12.24 | 7.96 | 7.57 | 2.75 | AMP |
| | | | | 298.79 | 159.85 | 276.89 | 59.55 | 384.82 | 45.58 | 78.75 | 146.51 | PHASE |
| 699 | 8.84 | 56.88 | 650 | 19.48 | 18.41 | 4.92 | 16.57 | 12.15 | 11.38 | 11.26 | 2.97 | AMP |
| | | | | 299.31 | 163.44 | 296.28 | 59.92 | 322.68 | 56.39 | 89.91 | 142.33 | PHASE |
| 700 | 8.23 | 66.86 | 651 | 24.41 | 14.35 | 7.88 | 19.83 | 12.55 | 12.32 | 11.28 | 3.82 | AMP |
| | | | | 385.39 | 167.39 | 383.68 | 58.83 | 293.96 | 58.88 | 99.85 | 158.92 | PHASE |
| 701 | 7.18 | 79.54 | 650 | 29.48 | 18.28 | 18.59 | 24.81 | 14.74 | 14.42 | 14.82 | 2.98 | AMP |
| | | | | 389.45 | 161.28 | 294.13 | 36.74 | 275.63 | 75.29 | 88.61 | 138.82 | PHASE |
| 702 | 6.37 | 93.63 | 650 | 35.56 | 28.38 | 14.88 | 26.88 | 14.67 | 28.38 | 15.78 | 2.92 | AMP |
| | | | | 317.73 | 168.85 | 297.13 | 41.16 | 285.95 | 111.38 | 181.38 | 122.92 | PHASE |
| 703 | 4.55 | 183.82 | 650 | 41.64 | 23.34 | 19.85 | 28.83 | 13.63 | 26.75 | 17.25 | 3.41 | AMP |
| | | | | 319.54 | 166.32 | 285.91 | 24.97 | 266.54 | 185.23 | 88.82 | 79.89 | PHASE |
| 704 | 6.77 | 38.61 | 649 | 13.46 | 8.26 | 1.66 | 14.61 | 18.57 | 3.21 | 5.56 | 1.69 | AMP |
| | | | | 294.82 | 186.38 | 237.66 | 62.85 | 294.67 | 8.67 | 73.33 | 132.36 | PHASE |
| 705 | 7.86 | 53.21 | 650 | 17.65 | 11.94 | 3.67 | 18.66 | 11.42 | 7.37 | 7.16 | 2.48 | AMP |
| | | | | 303.52 | 175.37 | 278.22 | 41.88 | 263.25 | 13.68 | 64.15 | 141.17 | PHASE |
| 706 | 7.46 | 66.55 | 650 | 22.47 | 14.92 | 6.44 | 22.82 | 15.18 | 8.29 | 9.35 | 2.57 | AMP |
| | | | | 311.62 | 173.55 | 275.41 | 26.79 | 255.76 | 75.22 | 65.55 | 135.87 | PHASE |
| 707 | 7.42 | 63.92 | 650 | 29.15 | 17.81 | 18.56 | 28.81 | 16.26 | 13.48 | 18.58 | 3.45 | AMP |
| | | | | 319.25 | 132.59 | 277.52 | 38.27 | 251.69 | 114.14 | 85.83 | 129.78 | PHASE |
| 708 | 6.65 | 96.35 | 650 | 35.88 | 28.87 | 15.74 | 29.62 | 15.18 | 12.33 | 18.61 | 3.78 | AMP |
| | | | | 323.79 | 131.31 | 271.42 | 26.73 | 238.06 | 187.16 | 83.26 | 122.88 | PHASE |
| 709 | 6.15 | 186.39 | 650 | 42.27 | 22.58 | 18.31 | 31.35 | 15.15 | 13.19 | 18.84 | 3.81 | AMP |
| | | | | 326.32 | 181.57 | 271.89 | 22.12 | 216.31 | 99.78 | 79.41 | 126.64 | PHASE |
| 710 | 5.11 | 111.79 | 651 | 47.52 | 24.78 | 21.12 | 29.87 | 15.24 | 18.27 | 9.67 | 3.45 | AMP |
| | | | | 333.17 | 184.91 | 273.79 | 19.96 | 214.80 | 92.76 | 74.14 | 134.47 | PHASE |

TABLE VIII.- Continued

(g) Continued

| TORSION 5% PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 4.73 | 14.82 | 658 | 6.85 | 6.87 | .87 | 2.94 | 1.99 | 2.84 | 1.27 | .44 AMP |
| | | | | 291.96 | 125.96 | 92.12 | 338.23 | 63.87 | 164.97 | 358.95 | 189.16 PHASE |
| 694 | 2.48 | 14.24 | 658 | 5.48 | 5.56 | .59 | 2.94 | 2.85 | 2.85 | 1.42 | .71 AMP |
| | | | | 298.99 | 117.87 | 48.28 | 386.87 | 38.28 | 142.17 | 318.58 | 89.75 PHASE |
| 695 | .81 | 13.89 | 658 | 4.86 | 5.17 | .41 | 2.78 | 2.37 | 1.91 | 1.37 | .77 AMP |
| | | | | 313.59 | 118.73 | 41.92 | 383.21 | 19.33 | 138.74 | 322.94 | 87.62 PHASE |
| 696 | -2.48 | 14.89 | 649 | 5.88 | 4.84 | .12 | 2.62 | 2.58 | 1.72 | 1.54 | 1.88 AMP |
| | | | | 332.94 | 129.52 | 221.88 | 318.38 | 36.14 | 165.83 | 357.28 | 126.58 PHASE |
| 697 | -4.98 | 14.46 | 649 | 5.78 | 4.67 | .58 | 2.51 | 3.16 | 1.44 | 1.37 | .93 AMP |
| | | | | 345.33 | 123.68 | 196.49 | 294.15 | 23.26 | 135.84 | 344.35 | 98.45 PHASE |
| 698 | 3.98 | 11.85 | 658 | 5.42 | 5.68 | 1.27 | 2.68 | 1.49 | 1.23 | .86 | .28 AMP |
| | | | | 271.85 | 182.31 | 8.97 | 292.13 | 15.35 | 111.25 | 348.81 | 31.28 PHASE |
| 699 | 1.62 | 18.78 | 658 | 4.27 | 4.91 | 1.28 | 2.75 | 1.56 | 1.88 | 1.13 | .25 AMP |
| | | | | 285.71 | 187.64 | 357.62 | 295.62 | 12.26 | 118.21 | 351.88 | 81.88 PHASE |
| 700 | -.69 | 18.15 | 651 | 3.53 | 4.37 | 1.58 | 2.66 | 1.81 | 1.81 | 1.49 | .52 AMP |
| | | | | 299.49 | 189.43 | 335.58 | 294.64 | 7.23 | 136.19 | 357.71 | 187.82 PHASE |
| 701 | -3.86 | 18.93 | 658 | 3.36 | 3.84 | .98 | 2.63 | 2.23 | 1.84 | 1.41 | .53 AMP |
| | | | | 322.65 | 189.28 | 316.18 | 283.85 | 359.55 | 182.18 | 339.59 | 184.12 PHASE |
| 702 | -5.54 | 11.82 | 658 | 3.85 | 3.68 | .92 | 2.79 | 2.73 | 1.21 | 1.17 | .16 AMP |
| | | | | 349.45 | 115.29 | 297.19 | 288.99 | 16.47 | 189.55 | 341.18 | 119.36 PHASE |
| 703 | -7.79 | 12.22 | 658 | 4.86 | 3.64 | .99 | 2.64 | 3.83 | 1.38 | .88 | .87 AMP |
| | | | | 2.18 | 112.97 | 262.24 | 275.83 | 6.88 | 87.41 | 328.84 | 1.87 PHASE |
| 704 | .95 | 8.83 | 649 | 3.78 | 3.46 | 1.29 | 2.84 | 1.38 | .54 | .65 | .19 AMP |
| | | | | 278.59 | 188.61 | 328.94 | 292.62 | 357.86 | 98.22 | 352.37 | 143.52 PHASE |
| 705 | -1.54 | 7.81 | 658 | 2.89 | 2.78 | 1.21 | 1.96 | 1.67 | .56 | 1.88 | .38 AMP |
| | | | | 298.39 | 182.56 | 386.89 | 282.85 | 343.69 | 181.57 | 331.58 | 187.74 PHASE |
| 706 | -3.78 | 7.74 | 658 | 2.63 | 2.31 | 1.29 | 2.85 | 2.81 | .55 | .97 | .45 AMP |
| | | | | 322.88 | 188.38 | 297.61 | 281.25 | 354.69 | 189.88 | 333.15 | 118.77 PHASE |
| 707 | -6.83 | 9.88 | 658 | 3.19 | 2.86 | 1.51 | 2.12 | 2.28 | .56 | .96 | .28 AMP |
| | | | | 350.98 | 128.23 | 285.36 | 283.88 | 8.28 | 117.58 | 324.68 | 92.18 PHASE |
| 708 | -8.68 | 9.99 | 658 | 4.39 | 2.85 | 1.88 | 2.13 | 2.46 | .85 | .95 | .27 AMP |
| | | | | 8.25 | 125.18 | 259.81 | 271.68 | 359.84 | 185.86 | 293.25 | 48.67 PHASE |
| 709 | -9.98 | 18.58 | 658 | 5.26 | 2.14 | 2.12 | 2.89 | 2.53 | .93 | .95 | .29 AMP |
| | | | | 13.78 | 129.31 | 253.24 | 269.63 | 357.86 | 183.75 | 284.98 | 53.43 PHASE |
| 710 | -11.39 | 11.26 | 651 | 6.25 | 2.18 | 2.28 | 1.86 | 2.54 | 1.85 | .98 | .32 AMP |
| | | | | 17.52 | 132.82 | 249.88 | 273.15 | .27 | 183.23 | 282.23 | 57.38 PHASE |

TABLE VIII.- Continued

(g) Continued

| FLAPWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|----------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO 21 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | -14.23 | 54.55 | 658 | 32.83 | 28.23 | 12.11 | 7.99 | 5.58 | 4.28 | 4.29 | 6.37 AMP |
| 694 | -11.68 | 56.96 | 658 | 132.24 | 328.54 | 17.81 | 187.89 | 298.88 | 21.34 | 257.98 | 44.84 PHASE |
| 695 | -8.54 | 57.49 | 658 | 33.81 | 21.83 | 12.89 | 8.27 | 5.55 | 3.98 | 4.12 | 5.95 AMP |
| 696 | -5.61 | 59.87 | 649 | 138.69 | 321.14 | 3.18 | 165.29 | 272.19 | 353.35 | 228.65 | 5.29 PHASE |
| 697 | -2.73 | 62.23 | 649 | 33.98 | 21.82 | 12.52 | 7.51 | 6.79 | 3.57 | 3.95 | 6.87 AMP |
| 698 | -11.99 | 45.28 | 658 | 133.35 | 322.48 | .65 | 156.28 | 273.48 | 341.17 | 232.73 | 2.92 PHASE |
| 699 | -9.17 | 47.47 | 658 | 35.38 | 22.86 | 12.79 | 7.69 | 6.99 | 3.36 | 2.54 | 7.87 AMP |
| 700 | -6.72 | 55.97 | 651 | 139.28 | 331.22 | 11.41 | 163.68 | 291.68 | 354.81 | 269.58 | 34.43 PHASE |
| 701 | -3.57 | 55.11 | 658 | 36.82 | 23.87 | 13.81 | 7.26 | 8.88 | 3.61 | 1.64 | 5.77 AMP |
| 702 | -.55 | 58.98 | 658 | 138.62 | 325.68 | 358.92 | 145.97 | 273.88 | 317.81 | 253.88 | 9.42 PHASE |
| 703 | 2.42 | 59.48 | 658 | 29.77 | 17.42 | 7.88 | 5.81 | 5.74 | 2.58 | 3.27 | 3.37 AMP |
| 704 | -6.31 | 48.34 | 649 | 126.58 | 328.91 | 347.76 | 161.88 | 236.68 | 319.87 | 221.99 | 2.97 PHASE |
| 705 | -3.44 | 43.88 | 658 | 29.83 | 18.55 | 8.27 | 6.37 | 6.16 | 2.36 | 3.11 | 3.34 AMP |
| 706 | -.82 | 45.84 | 658 | 132.38 | 327.32 | 352.22 | 164.56 | 244.77 | 326.29 | 243.35 | 28.88 PHASE |
| 707 | 2.16 | 58.18 | 658 | 38.83 | 19.54 | 8.62 | 7.87 | 7.28 | 2.39 | 2.76 | 3.65 AMP |
| 708 | 5.49 | 53.88 | 658 | 135.35 | 338.33 | 352.98 | 164.35 | 247.28 | 314.25 | 242.58 | 39.76 PHASE |
| 709 | 7.83 | 56.34 | 658 | 31.62 | 28.61 | 9.73 | 7.37 | 7.54 | 2.55 | 2.59 | 3.97 AMP |
| 710 | 8.81 | 57.72 | 651 | 135.33 | 325.75 | 344.33 | 148.44 | 237.88 | 288.29 | 224.81 | 26.11 PHASE |
| | | | | 32.23 | 21.98 | 18.89 | 7.18 | 8.12 | 2.89 | 1.91 | 3.88 AMP |
| | | | | 139.85 | 328.93 | 348.58 | 149.89 | 249.58 | 294.21 | 234.49 | 38.64 PHASE |
| | | | | 33.81 | 23.22 | 18.57 | 6.39 | 8.35 | 3.83 | 1.26 | 2.18 AMP |
| | | | | 138.39 | 321.97 | 338.19 | 138.95 | 232.67 | 268.14 | 288.82 | 2.68 PHASE |
| | | | | 27.62 | 15.88 | 4.93 | 4.74 | 6.59 | .64 | 1.77 | 1.19 AMP |
| | | | | 131.57 | 331.97 | 345.48 | 174.28 | 225.53 | 388.98 | 228.86 | 9.88 PHASE |
| | | | | 28.19 | 16.14 | 5.65 | 5.69 | 7.74 | .74 | 1.54 | 1.84 AMP |
| | | | | 133.22 | 331.38 | 342.85 | 158.85 | 218.39 | 257.78 | 237.77 | 29.18 PHASE |
| | | | | 28.99 | 17.15 | 6.39 | 6.18 | 8.84 | .86 | 1.36 | 2.24 AMP |
| | | | | 135.83 | 333.59 | 345.73 | 155.89 | 221.96 | 263.73 | 226.17 | 33.52 PHASE |
| | | | | 38.25 | 18.75 | 7.16 | 6.69 | 7.85 | 1.88 | 1.18 | 1.81 AMP |
| | | | | 138.77 | 335.59 | 352.14 | 153.35 | 226.54 | 275.87 | 216.34 | 43.74 PHASE |
| | | | | 31.15 | 28.31 | 7.76 | 6.51 | 8.32 | 1.87 | .54 | 1.97 AMP |
| | | | | 138.89 | 338.18 | 352.88 | 133.82 | 216.35 | 269.59 | 177.24 | 13.78 PHASE |
| | | | | 32.84 | 21.65 | 8.89 | 6.51 | 8.65 | 1.88 | .31 | 1.83 AMP |
| | | | | 139.56 | 328.35 | 358.15 | 128.87 | 212.79 | 265.93 | 153.47 | 6.37 PHASE |
| | | | | 32.61 | 22.28 | 8.85 | 6.82 | 8.95 | 1.11 | .27 | 1.84 AMP |
| | | | | 148.98 | 327.64 | 358.98 | 121.98 | 215.24 | 264.25 | 146.98 | 358.36 PHASE |

| CHORDWISE 77 PERCENT RADIUS | | | | | | | | | | | |
|-----------------------------|--------|---------|-----|--------|--------|--------|-------|--------|--------|--------|--------------|
| RUN NO 21 | | | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | -19.54 | 32.87 | 658 | 4.74 | 6.67 | 6.74 | 4.95 | 5.28 | 5.72 | 4.53 | 2.88 AMP |
| 694 | -19.28 | 36.69 | 658 | 152.18 | 385.63 | 36.31 | 97.69 | 313.55 | 65.89 | 148.37 | 177.48 PHASE |
| 695 | -18.38 | 37.17 | 658 | 3.89 | 6.32 | 7.34 | 6.39 | 5.38 | 8.68 | 6.34 | 2.86 AMP |
| 696 | -17.11 | 39.23 | 649 | 168.38 | 293.45 | 14.35 | 66.57 | 282.33 | 41.28 | 98.44 | 132.67 PHASE |
| 697 | -16.37 | 43.11 | 649 | 2.98 | 5.83 | 8.38 | 7.42 | 6.18 | 18.85 | 6.91 | 1.59 AMP |
| 698 | -18.14 | 26.21 | 658 | 177.29 | 291.55 | 2.87 | 54.75 | 274.34 | 38.83 | 95.64 | 126.58 PHASE |
| 699 | -18.75 | 26.83 | 658 | 2.86 | 5.48 | 9.74 | 9.27 | 7.88 | 12.44 | 7.55 | .92 AMP |
| 700 | -19.22 | 38.74 | 651 | 213.91 | 293.48 | 8.71 | 62.44 | 274.19 | 66.66 | 124.92 | 122.88 PHASE |
| 701 | -18.78 | 32.91 | 658 | 2.28 | 5.32 | 11.22 | 18.36 | 9.63 | 12.51 | 8.54 | .97 AMP |
| 702 | -16.76 | 48.28 | 658 | 268.23 | 282.13 | 382.87 | 42.61 | 253.22 | 73.79 | 112.36 | 37.59 PHASE |
| 703 | -15.58 | 46.66 | 658 | 4.85 | 5.82 | 3.88 | 5.33 | 7.58 | 3.24 | 2.43 | .95 AMP |
| 704 | -16.87 | 25.25 | 649 | 136.53 | 293.53 | 16.18 | 68.16 | 272.97 | 38.65 | 68.33 | 98.87 PHASE |
| 705 | -17.79 | 28.98 | 658 | 3.88 | 5.52 | 4.51 | 6.72 | 7.32 | 4.68 | 4.18 | 1.28 AMP |
| 706 | -18.28 | 38.88 | 658 | 147.47 | 298.27 | 9.58 | 68.72 | 283.18 | 42.87 | 86.26 | 91.36 PHASE |
| 707 | -17.68 | 31.58 | 658 | 2.38 | 5.19 | 5.47 | 7.97 | 9.28 | 5.11 | 4.83 | 1.73 AMP |
| 708 | -16.14 | 38.66 | 658 | 161.66 | 292.85 | 8.44 | 58.46 | 265.18 | 42.45 | 99.94 | 96.77 PHASE |
| 709 | -15.18 | 44.41 | 658 | 1.19 | 4.75 | 7.14 | 9.88 | 18.48 | 5.22 | 5.85 | 1.77 AMP |
| 710 | -14.46 | 48.98 | 651 | 197.88 | 284.58 | 351.81 | 43.17 | 249.98 | 62.41 | 78.26 | 66.26 PHASE |
| | | | | 1.83 | 5.16 | 8.53 | 11.13 | 18.88 | 7.35 | 5.87 | 2.18 AMP |
| | | | | 288.86 | 285.97 | 348.49 | 46.89 | 258.22 | 184.63 | 99.84 | 78.84 PHASE |
| | | | | 3.64 | 5.59 | 18.41 | 12.48 | 18.58 | 18.89 | 16.58 | 2.38 AMP |
| | | | | 384.88 | 274.77 | 331.86 | 29.12 | 238.81 | 182.37 | 86.13 | 42.18 PHASE |
| | | | | 4.77 | 5.26 | 2.41 | 5.46 | 7.13 | 1.25 | 2.81 | .73 AMP |
| | | | | 141.46 | 293.18 | 38.83 | 66.87 | 261.49 | 351.81 | 67.91 | 182.95 PHASE |
| | | | | 3.32 | 4.53 | 3.42 | 7.82 | 8.63 | 3.85 | 2.59 | 1.24 AMP |
| | | | | 148.61 | 287.99 | 8.66 | 46.52 | 238.22 | 359.45 | 57.59 | 92.24 PHASE |
| | | | | 1.68 | 4.62 | 4.25 | 8.71 | 18.64 | 3.52 | 3.57 | 1.52 AMP |
| | | | | 162.89 | 284.83 | 359.27 | 48.97 | 236.71 | 66.32 | 57.84 | 83.98 PHASE |
| | | | | .83 | 5.89 | 5.46 | 18.86 | 11.38 | 5.16 | 4.86 | 2.18 AMP |
| | | | | 274.15 | 284.17 | 351.95 | 42.37 | 236.88 | 118.87 | 88.44 | 92.76 PHASE |
| | | | | 3.22 | 5.78 | 6.96 | 12.83 | 11.31 | 4.48 | 4.17 | 2.18 AMP |
| | | | | 318.19 | 277.28 | 337.61 | 31.18 | 217.85 | 186.98 | 78.15 | 88.24 PHASE |
| | | | | 4.85 | 6.36 | 8.87 | 12.88 | 11.64 | 4.58 | 4.22 | 1.94 AMP |
| | | | | 315.36 | 275.65 | 333.87 | 26.83 | 288.13 | 188.34 | 74.85 | 77.73 PHASE |
| | | | | 6.23 | 7.81 | 8.95 | 12.61 | 11.66 | 3.23 | 3.79 | 1.56 AMP |
| | | | | 319.82 | 278.45 | 328.85 | 22.78 | 287.89 | 92.14 | 68.87 | 83.82 PHASE |

TABLE VIII.- Concluded

(g) Concluded

| TORSION 75 PERCENT RADIUS | | | | | | | | | | | |
|---------------------------|--------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 21 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | 2.24 | 14.84 | 658 | 5.98 | 6.18 | 2.28 | 1.85 | 1.55 | 1.55 | .67 | .68 AMP |
| 694 | .24 | 14.36 | 658 | 288.84 | 128.96 | 235.28 | 353.85 | 39.62 | 186.16 | 58.93 | 189.29 PHASE |
| 695 | -1.76 | 13.83 | 658 | 5.13 | 5.67 | .46 | 1.88 | 1.51 | 1.56 | .71 | .78 AMP |
| 696 | -3.83 | 13.88 | 649 | 285.88 | 113.99 | 268.59 | 331.92 | 4.28 | 157.92 | 14.95 | 88.46 PHASE |
| 697 | -5.73 | 12.18 | 649 | 4.26 | 5.31 | .46 | 1.78 | 1.56 | 1.38 | .68 | .79 AMP |
| 698 | 1.64 | 13.13 | 658 | 297.23 | 116.95 | 255.87 | 331.46 | 357.39 | 151.17 | 28.59 | 79.37 PHASE |
| 699 | -.47 | 11.38 | 658 | 3.98 | 5.83 | .65 | 1.77 | 1.43 | 1.32 | .57 | .78 AMP |
| 700 | -2.34 | 18.25 | 651 | 316.64 | 129.81 | 258.48 | 338.65 | 7.38 | 168.86 | 26.85 | 122.51 PHASE |
| 701 | -4.37 | 9.76 | 658 | 3.79 | 4.82 | .65 | 1.78 | 1.55 | 1.38 | .62 | .65 AMP |
| 702 | -6.44 | 18.11 | 658 | 333.19 | 128.85 | 215.74 | 326.91 | 358.56 | 129.84 | 4.73 | 89.86 PHASE |
| 703 | -8.29 | 18.98 | 658 | 5.65 | 5.33 | .35 | 1.78 | 1.35 | 1.19 | .84 | .44 AMP |
| 704 | -.72 | 8.45 | 649 | 264.86 | 184.38 | 2.32 | 324.32 | 338.92 | 141.82 | 39.18 | 42.95 PHASE |
| 705 | -2.88 | 6.79 | 658 | 4.48 | 4.71 | .39 | 1.79 | 1.47 | 1.81 | .88 | .46 AMP |
| 706 | -4.75 | 7.12 | 658 | 274.62 | 112.18 | 324.99 | 329.58 | 339.81 | 153.49 | 46.36 | 55.83 PHASE |
| 707 | -6.78 | 8.84 | 658 | 3.51 | 4.31 | .43 | 1.88 | 1.63 | 1.18 | .93 | .48 AMP |
| 708 | -8.82 | 9.77 | 658 | 284.32 | 117.66 | 295.31 | 331.83 | 335.17 | 154.58 | 39.92 | 56.17 PHASE |
| 709 | -9.98 | 9.78 | 658 | 2.82 | 3.97 | .27 | 1.95 | 1.68 | 1.16 | 1.88 | .22 AMP |
| 710 | -11.19 | 18.18 | 651 | 383.84 | 119.78 | 251.23 | 321.32 | 318.92 | 128.13 | 25.48 | 29.89 PHASE |
| | | | | 2.64 | 3.84 | .36 | 1.91 | 1.78 | 1.37 | .84 | .36 AMP |
| | | | | 334.22 | 129.85 | 231.52 | 324.91 | 334.88 | 121.28 | 33.78 | 347.55 PHASE |
| | | | | 3.15 | 3.83 | .48 | 1.73 | 1.89 | 1.58 | .81 | .47 AMP |
| | | | | 354.96 | 128.31 | 194.29 | 312.88 | 321.37 | 93.61 | 18.93 | 313.86 PHASE |
| | | | | 4.88 | 3.33 | .48 | 1.53 | 1.23 | .48 | .68 | .17 AMP |
| | | | | 278.48 | 111.86 | 386.83 | 324.83 | 329.98 | 143.87 | 24.14 | 18.65 PHASE |
| | | | | 2.96 | 2.81 | .48 | 1.68 | 1.24 | .68 | .58 | .15 AMP |
| | | | | 282.76 | 119.73 | 268.93 | 313.83 | 316.57 | 116.86 | 2.58 | 346.17 PHASE |
| | | | | 2.31 | 2.61 | .43 | 1.76 | 1.34 | .88 | .64 | .18 AMP |
| | | | | 382.13 | 138.26 | 256.22 | 313.49 | 328.93 | 112.68 | 1.88 | 388.18 PHASE |
| | | | | 2.29 | 2.64 | .58 | 1.74 | 1.42 | .91 | .66 | .31 AMP |
| | | | | 335.56 | 143.47 | 238.74 | 315.83 | 329.54 | 111.51 | 351.42 | 294.78 PHASE |
| | | | | 2.98 | 2.82 | .85 | 1.62 | 1.56 | 1.87 | .53 | .35 AMP |
| | | | | 3.38 | 146.91 | 228.45 | 299.52 | 322.79 | 93.93 | 319.28 | 281.69 PHASE |
| | | | | 3.69 | 3.82 | .94 | 1.63 | 1.54 | 1.16 | .51 | .36 AMP |
| | | | | 12.68 | 149.87 | 213.56 | 294.75 | 328.98 | 86.13 | 386.82 | 268.37 PHASE |
| | | | | 4.57 | 3.15 | .87 | 1.44 | 1.48 | 1.22 | .43 | .37 AMP |
| | | | | 18.99 | 153.19 | 213.72 | 294.87 | 325.29 | 83.77 | 298.42 | 264.48 PHASE |

| PITCH LINK | | | | | | | | | | | |
|------------|-------|---------|-----|--------|--------|--------|--------|--------|--------|--------|--------------|
| RUN NO | | 21 | | | | | | | | | |
| PT NO | MEAN | 1/2 P-P | RPM | 1P | 2P | 3P | 4P | 5P | 6P | 7P | 8P |
| 693 | -3.88 | 14.65 | 658 | 3.71 | 3.22 | 2.98 | 3.63 | 3.37 | 1.65 | 1.11 | 1.85 AMP |
| 694 | -1.23 | 14.51 | 658 | 111.11 | 328.46 | 231.69 | 148.28 | 258.41 | 343.19 | 79.49 | 218.32 PHASE |
| 695 | .76 | 14.27 | 658 | 2.73 | 2.74 | 2.89 | 3.92 | 3.73 | 1.85 | 1.21 | 1.87 AMP |
| 696 | 2.81 | 16.18 | 649 | 124.65 | 328.16 | 287.55 | 124.76 | 226.23 | 324.25 | 62.62 | 176.79 PHASE |
| 697 | 4.99 | 14.83 | 649 | 2.23 | 2.56 | 2.98 | 3.83 | 4.38 | 1.81 | 1.25 | 1.94 AMP |
| 698 | -1.86 | 11.51 | 658 | 158.35 | 328.55 | 288.82 | 118.88 | 217.15 | 314.91 | 73.35 | 174.63 PHASE |
| 699 | -.81 | 11.27 | 658 | 2.75 | 2.46 | 2.54 | 3.81 | 4.88 | 1.62 | .98 | 2.81 AMP |
| 700 | 1.72 | 18.75 | 651 | 192.18 | 353.27 | 281.98 | 124.93 | 233.85 | 347.41 | 153.74 | 288.88 PHASE |
| 701 | 3.63 | 12.85 | 658 | 4.24 | 2.61 | 2.37 | 3.94 | 5.71 | 1.33 | 1.85 | 1.78 AMP |
| 702 | 5.68 | 12.85 | 658 | 286.11 | 355.18 | 183.88 | 184.49 | 216.62 | 324.98 | 184.86 | 189.38 PHASE |
| 703 | 7.67 | 14.36 | 658 | 3.54 | 2.48 | 3.34 | 2.91 | 2.55 | .65 | .89 | .88 AMP |
| 704 | .86 | 8.33 | 649 | 65.67 | 293.78 | 178.89 | 188.83 | 213.99 | 266.27 | 66.98 | 168.89 PHASE |
| 705 | 2.91 | 9.79 | 658 | 2.19 | 1.74 | 3.46 | 3.19 | 2.77 | .57 | .93 | .69 AMP |
| 706 | 4.66 | 18.31 | 658 | 71.31 | 382.44 | 179.39 | 118.37 | 211.14 | 263.31 | 188.56 | 177.68 PHASE |
| 707 | 6.62 | 18.91 | 658 | 1.83 | 1.18 | 3.78 | 3.23 | 3.36 | 1.88 | .91 | .56 AMP |
| 708 | 8.83 | 12.57 | 658 | 62.69 | 318.83 | 171.22 | 186.81 | 286.13 | 272.73 | 128.85 | 226.98 PHASE |
| 709 | 18.88 | 14.31 | 658 | .48 | .99 | 3.55 | 3.48 | 4.36 | 1.42 | 1.89 | .49 AMP |
| 710 | 11.19 | 14.75 | 651 | 285.68 | 339.19 | 161.57 | 93.15 | 195.18 | 261.61 | 122.48 | 281.62 PHASE |
| | | | | 2.12 | 1.86 | 3.58 | 3.92 | 5.86 | .49 | 1.88 | .31 AMP |
| | | | | 238.88 | 359.33 | 168.86 | 99.85 | 289.34 | 291.47 | 136.81 | 286.87 PHASE |
| | | | | 4.19 | 1.64 | 3.36 | 4.85 | 5.62 | .73 | .51 | .18 AMP |
| | | | | 229.89 | 11.63 | 148.89 | 84.29 | 195.14 | 267.58 | 131.88 | 195.28 PHASE |
| | | | | 2.78 | .58 | 3.48 | 2.12 | 2.23 | .42 | .58 | .28 AMP |
| | | | | 44.56 | 338.66 | 156.46 | 187.89 | 193.43 | 225.45 | 69.24 | 183.58 PHASE |
| | | | | 1.48 | 24.68 | 144.67 | 92.65 | 179.77 | 353.98 | 128.58 | 247.78 PHASE |
| | | | | .68 | .71 | 3.43 | 2.47 | 3.78 | .85 | .71 | .48 AMP |
| | | | | 329.81 | 48.41 | 141.58 | 94.45 | 186.88 | 32.54 | 115.69 | 264.45 PHASE |
| | | | | 1.72 | 1.12 | 3.63 | 2.72 | 3.98 | .21 | .51 | .52 AMP |
| | | | | 258.44 | 49.87 | 133.72 | 181.33 | 199.32 | 354.48 | 184.88 | 251.62 PHASE |
| | | | | 3.78 | 1.52 | 3.79 | 2.88 | 4.23 | .54 | .48 | .63 AMP |
| | | | | 237.59 | 45.56 | 111.64 | 94.36 | 188.64 | 322.68 | 98.92 | 214.51 PHASE |
| | | | | 4.91 | 1.72 | 4.22 | 2.93 | 4.35 | .72 | .34 | .61 AMP |
| | | | | 234.45 | 43.46 | 183.89 | 94.28 | 186.89 | 316.24 | 97.25 | 285.29 PHASE |
| | | | | 6.38 | 2.83 | 4.43 | 2.68 | 4.29 | .89 | .86 | .67 AMP |
| | | | | 231.68 | 48.54 | 188.54 | 93.79 | 184.37 | 299.95 | 76.83 | 284.97 PHASE |

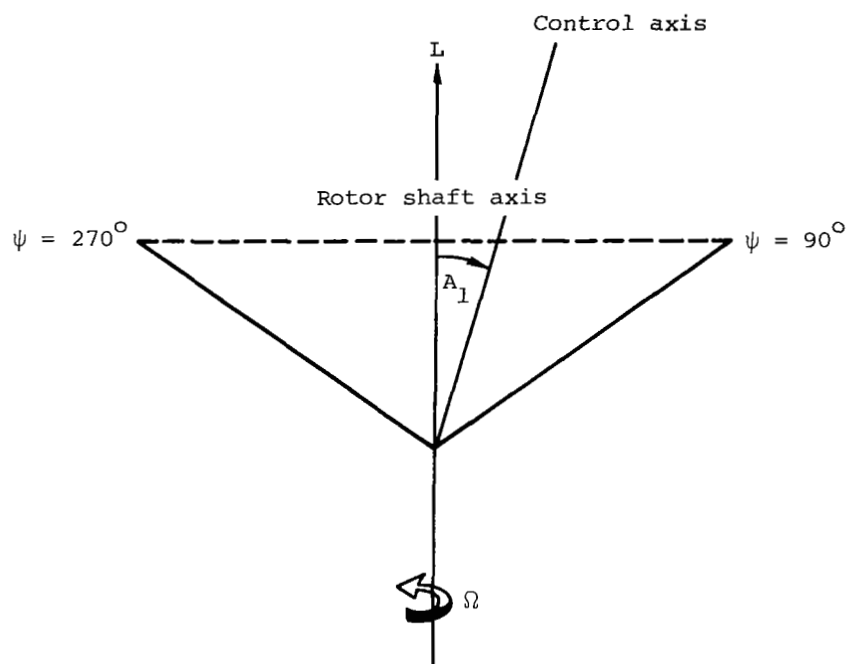
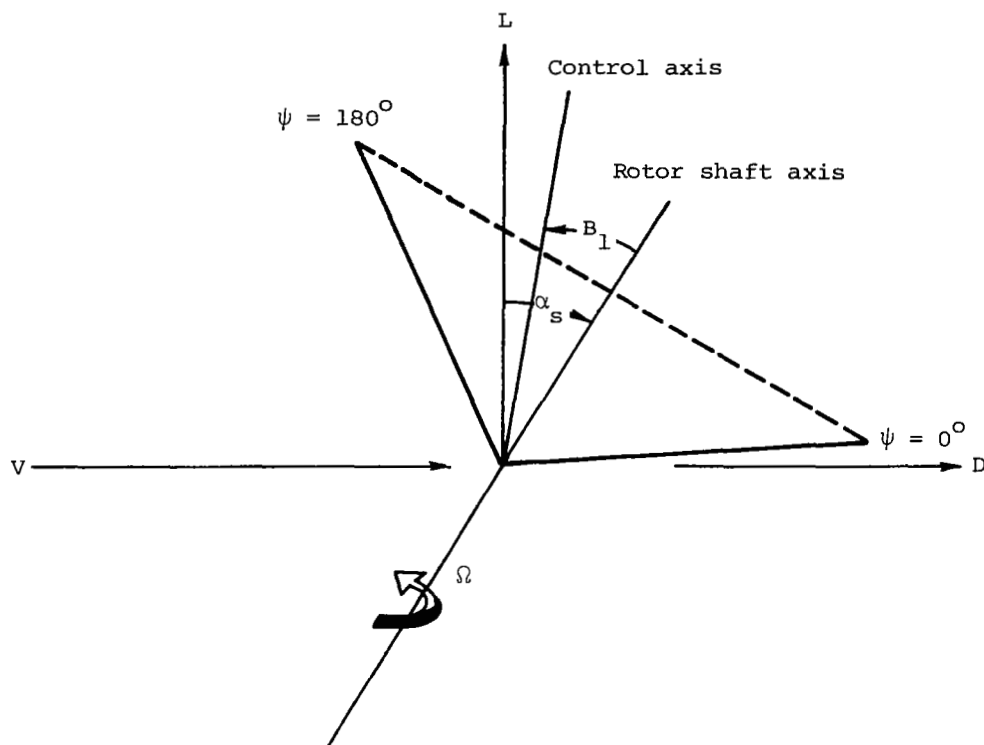
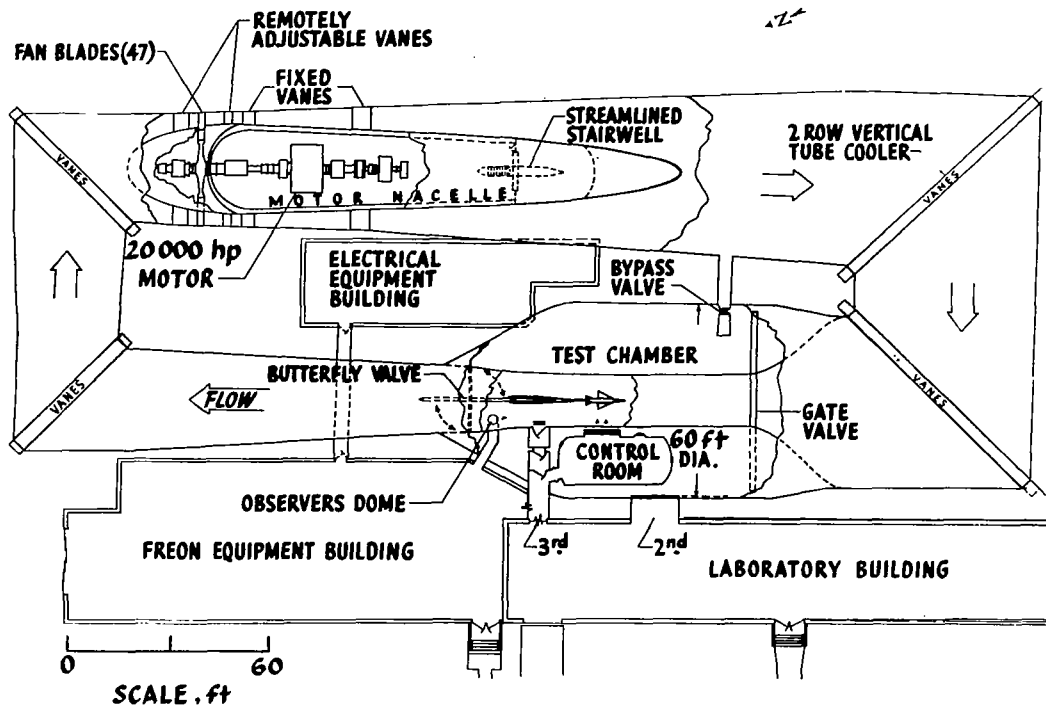
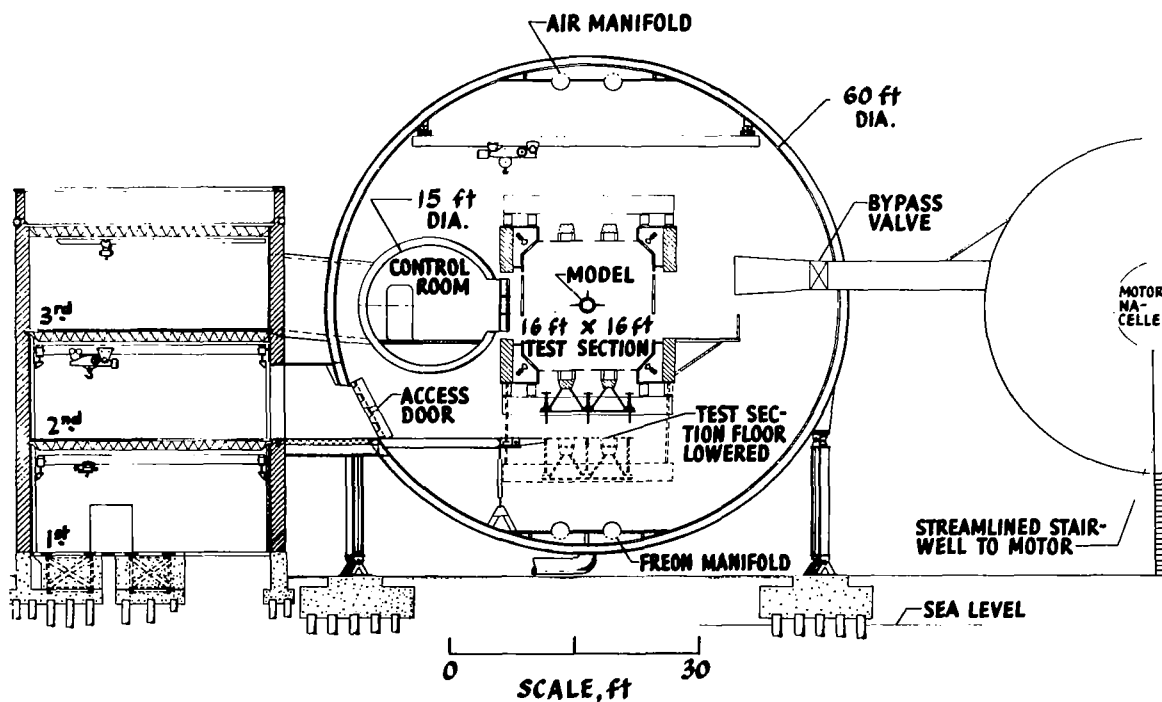


Figure 1.- Notation showing positive directions of forces, angles, and velocities.



(a) Top view.



(b) Cross-sectional view.

Figure 2.- Langley Transonic Dynamics Tunnel.

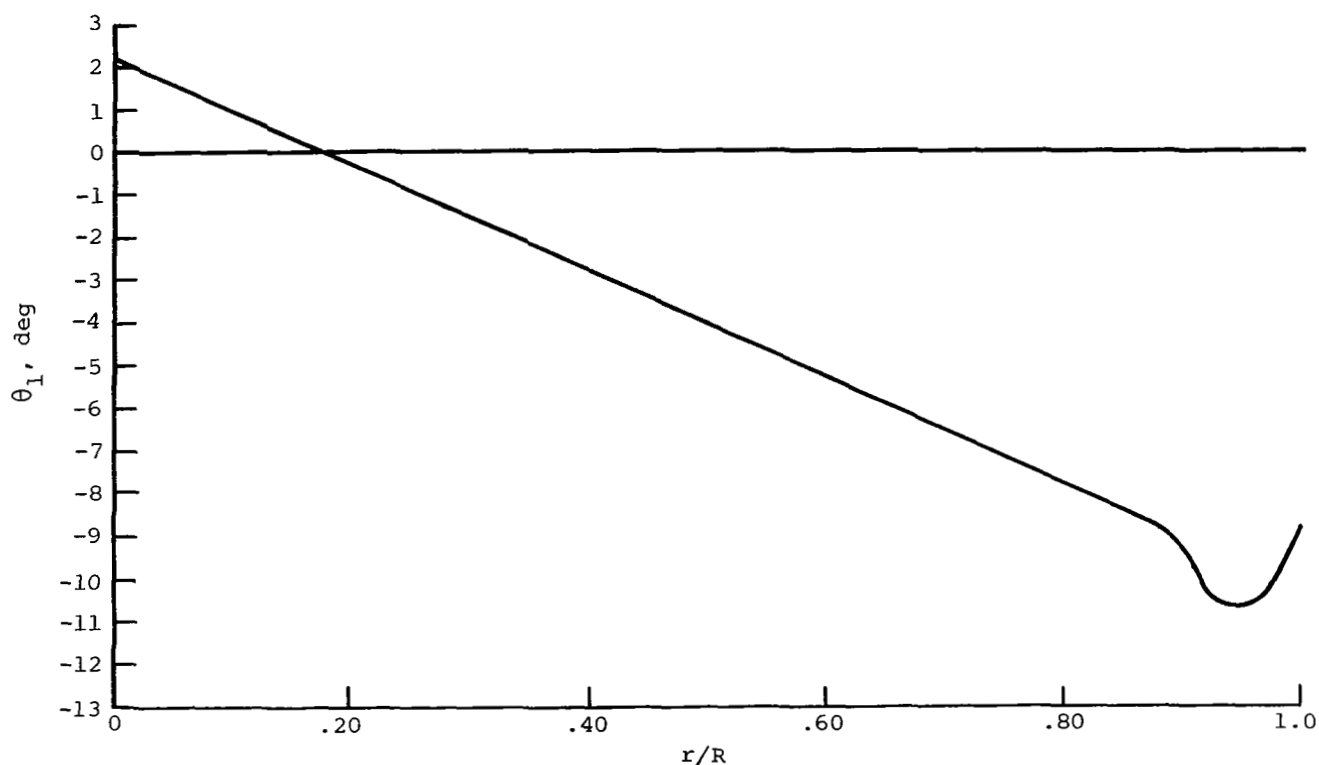
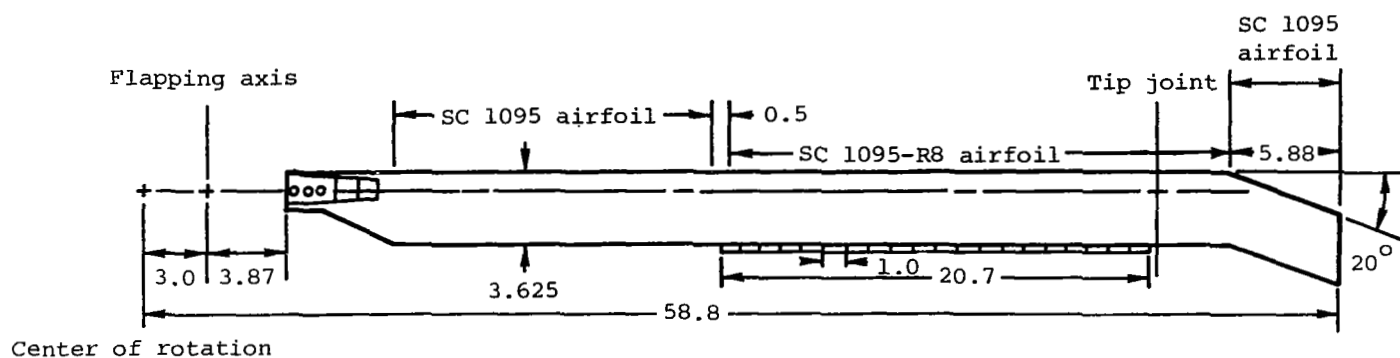
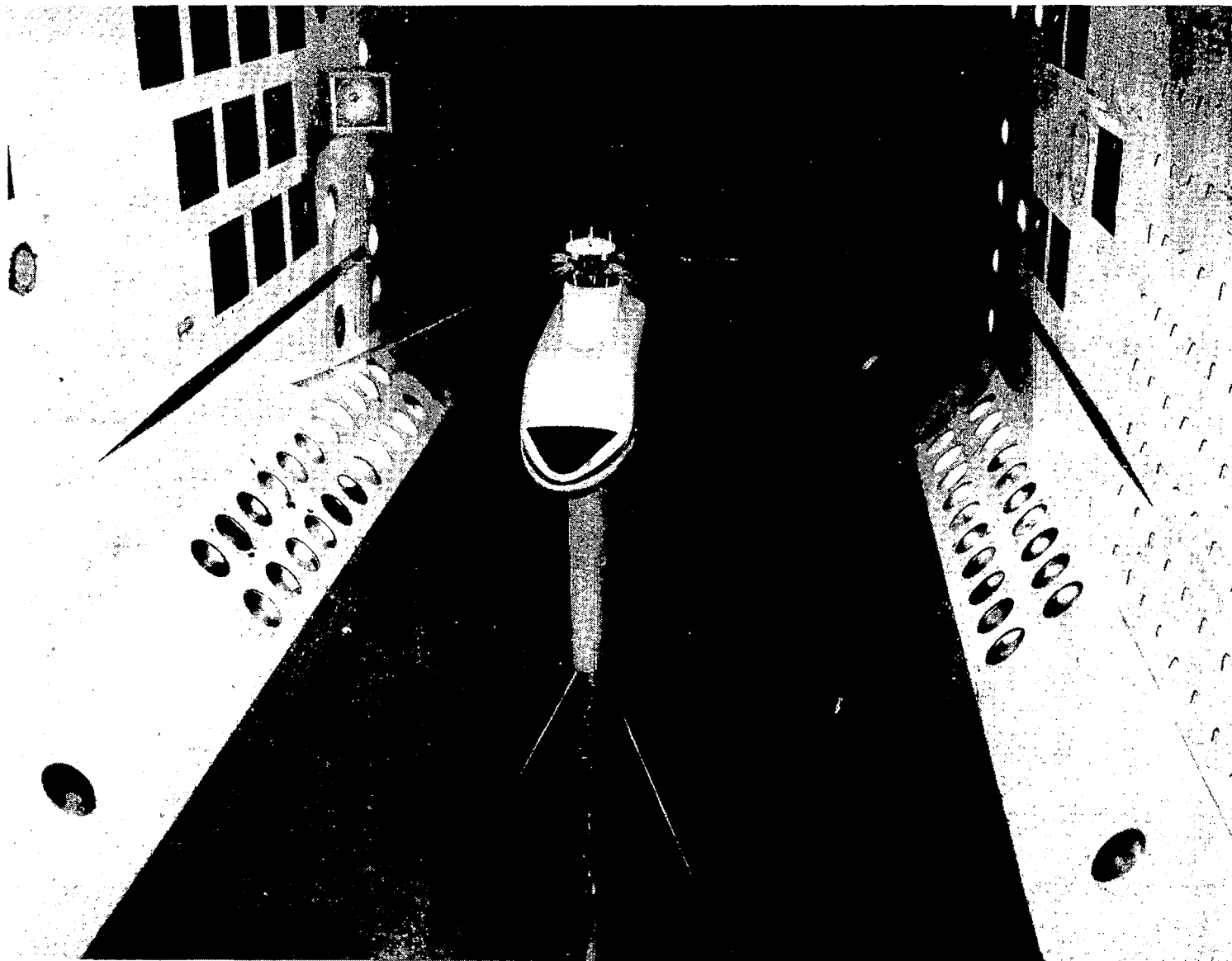


Figure 3.- Rotor blade geometry and built-in twist distribution.
Blade dimensions are in inches unless otherwise indicated.



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Figure 5.- Aeroelastic rotor experimental system (ARES) model in
Langley Transonic Dynamics Tunnel.

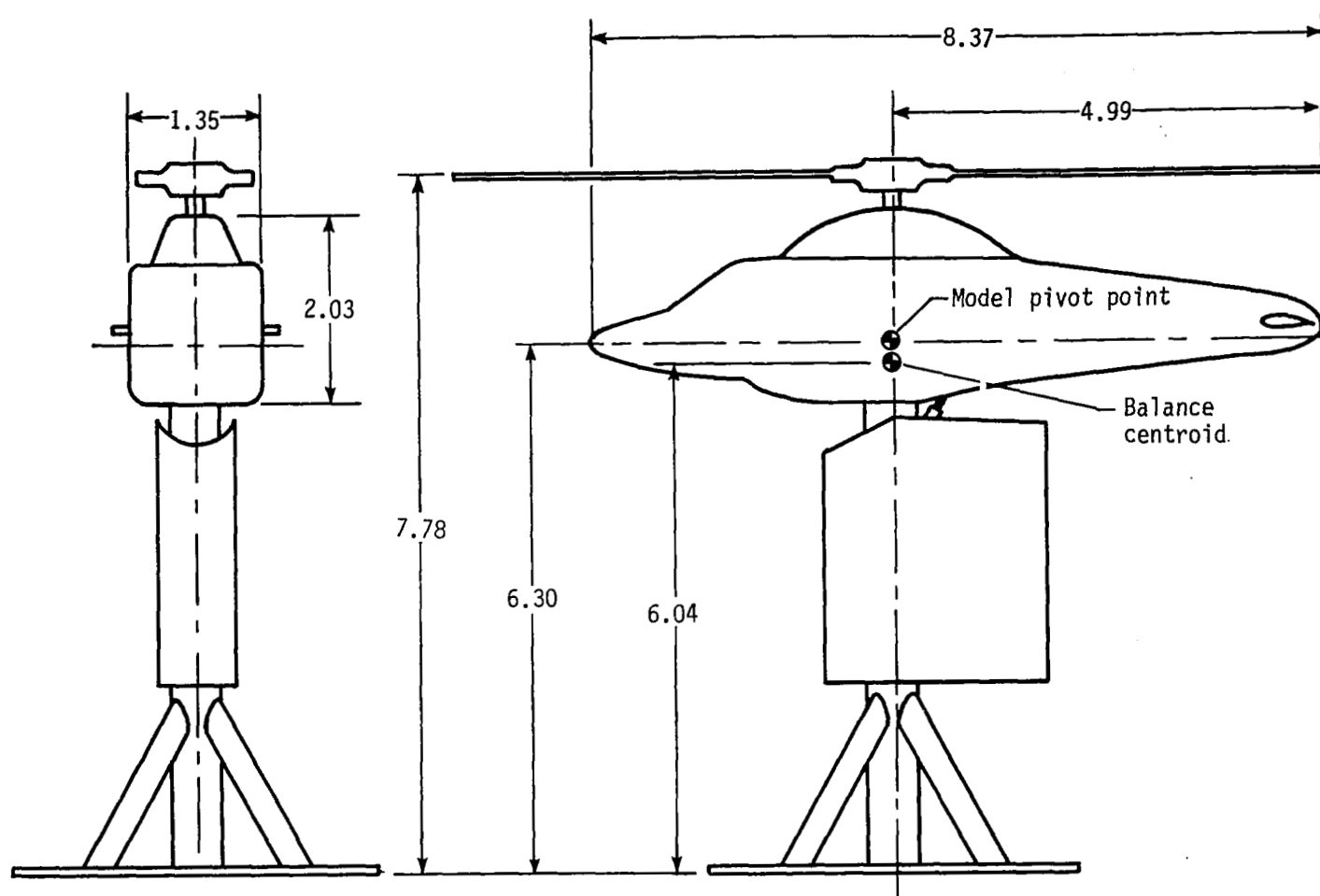
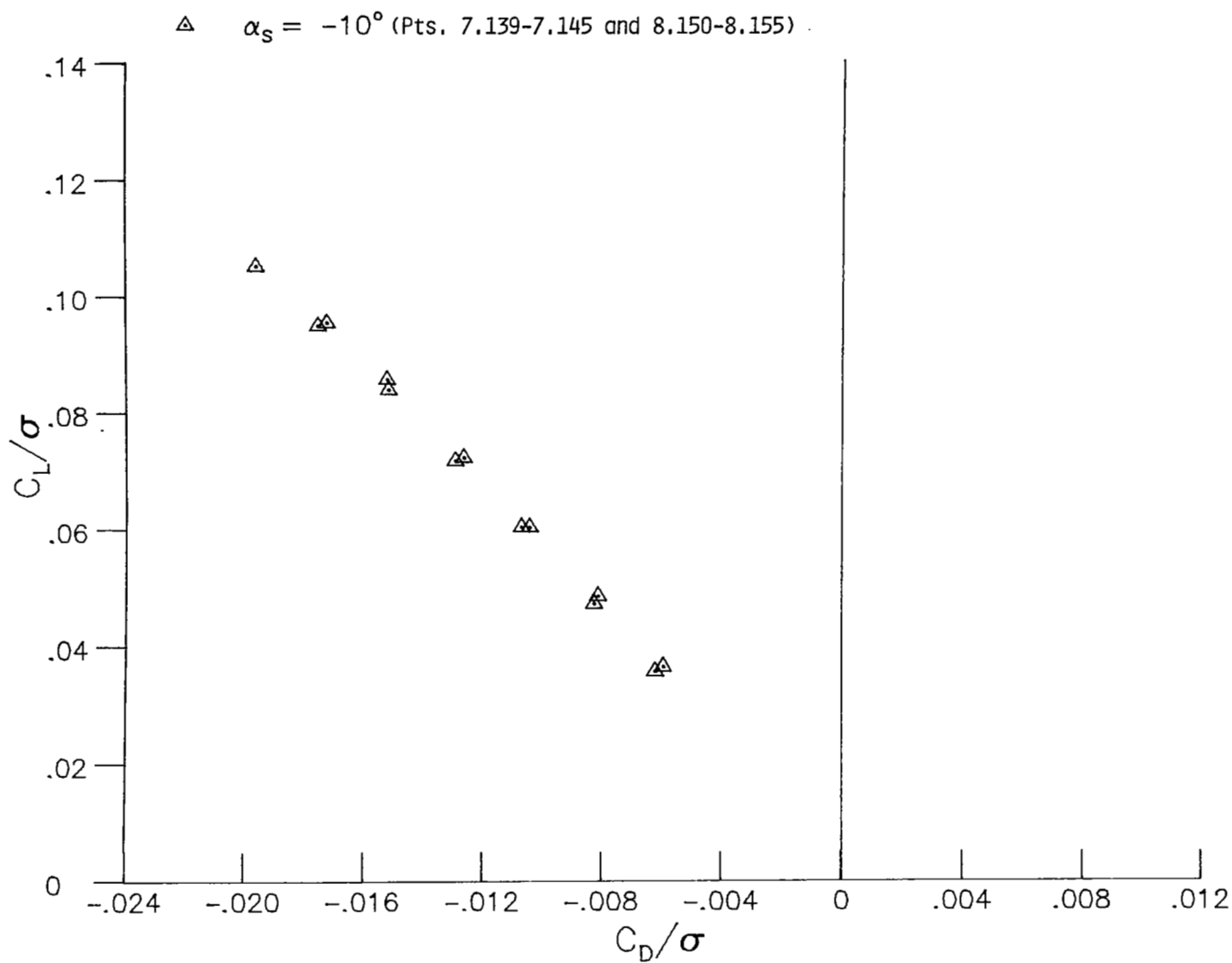
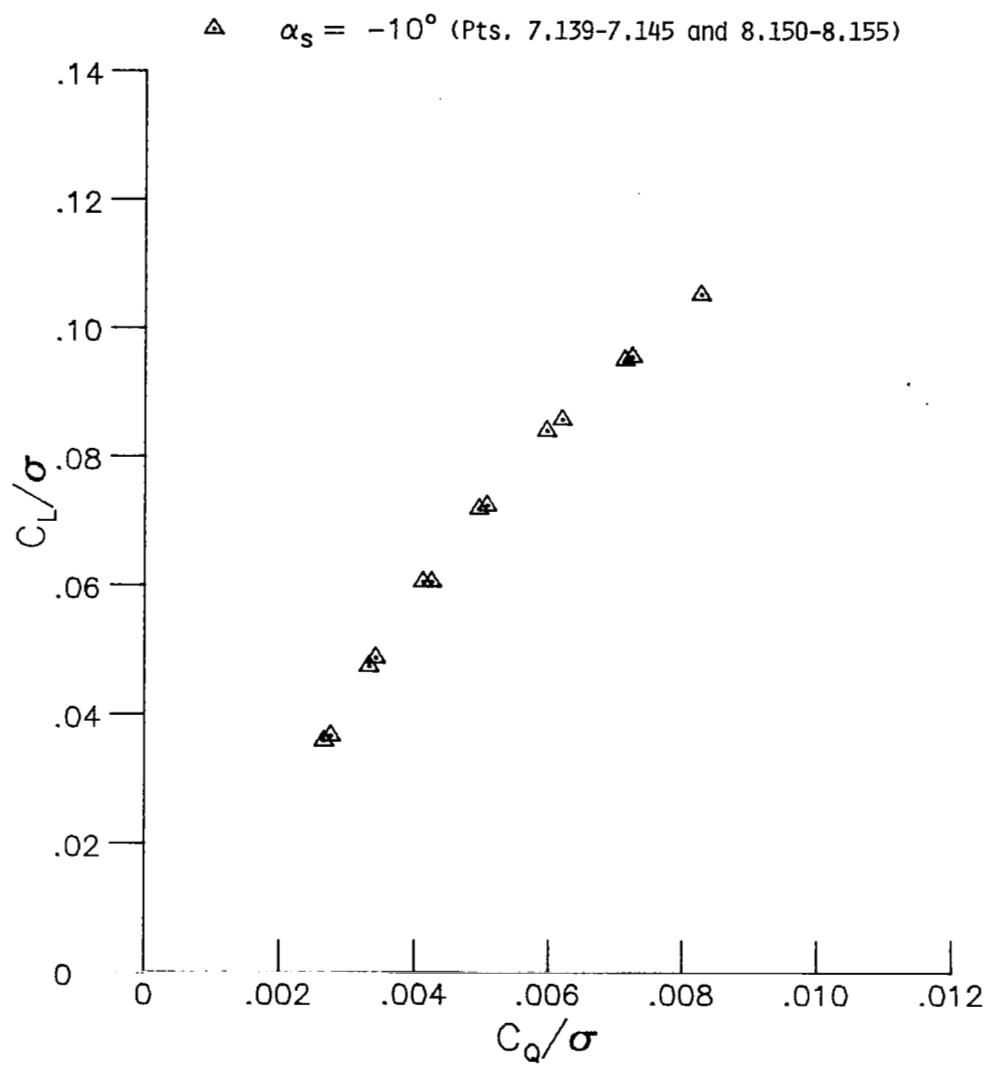


Figure 6.- Schematic diagram of aeroelastic rotor experimental system.
All dimensions are in feet.



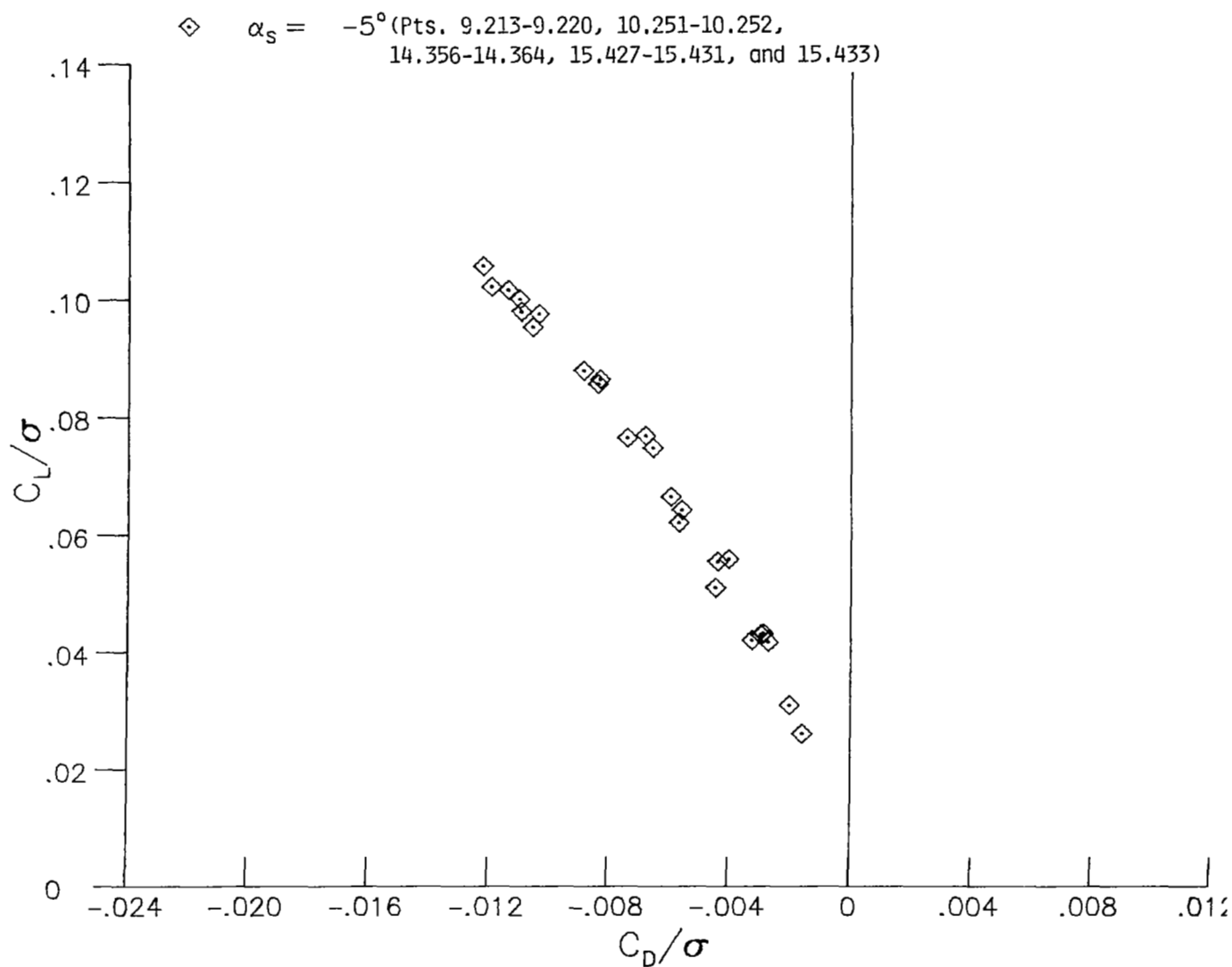
(a) C_L/σ versus C_D/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 7.- Rotor performance data for ACR blades with swept tips and 4° tabs. (See table III.)



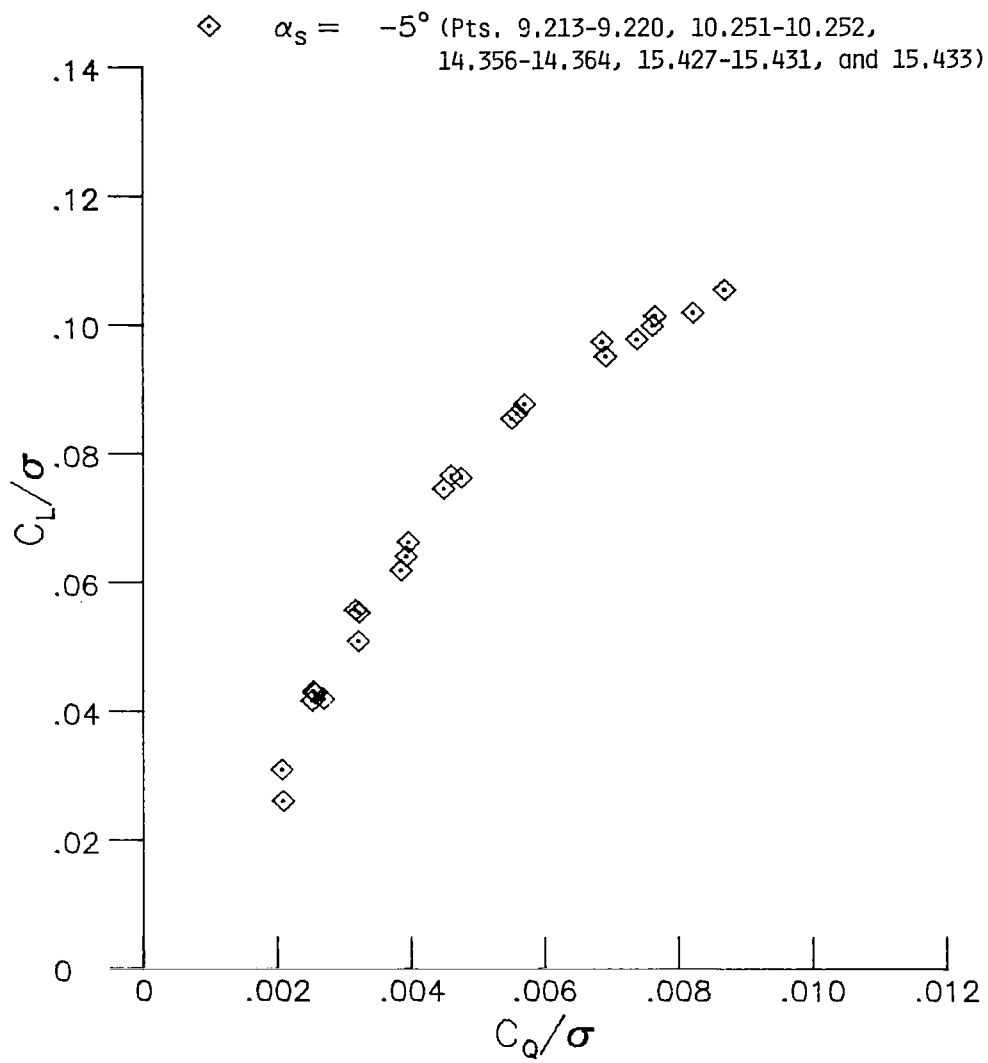
(b) C_L/σ versus C_Q/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 7.- Continued.



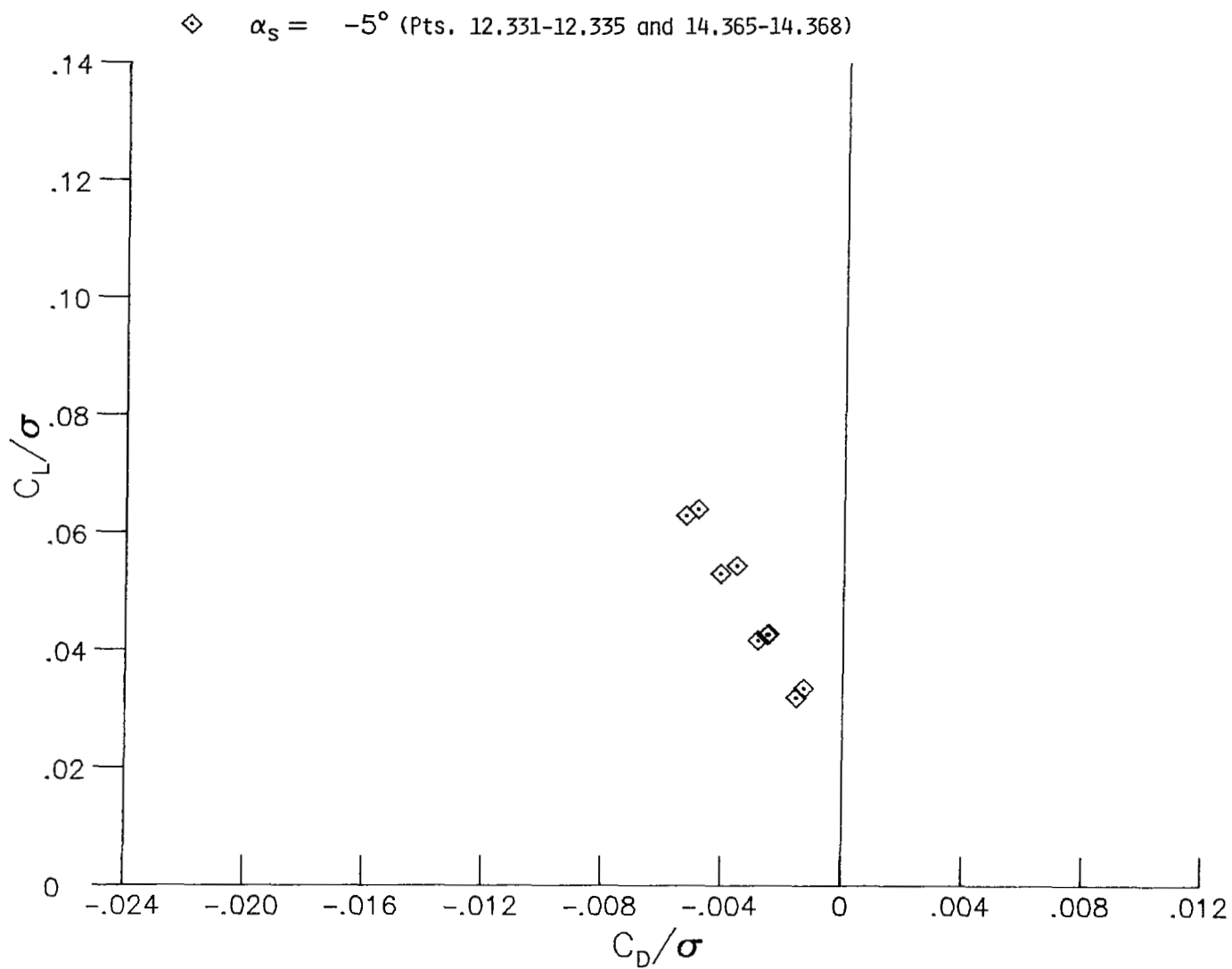
(c) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 7.- Continued.



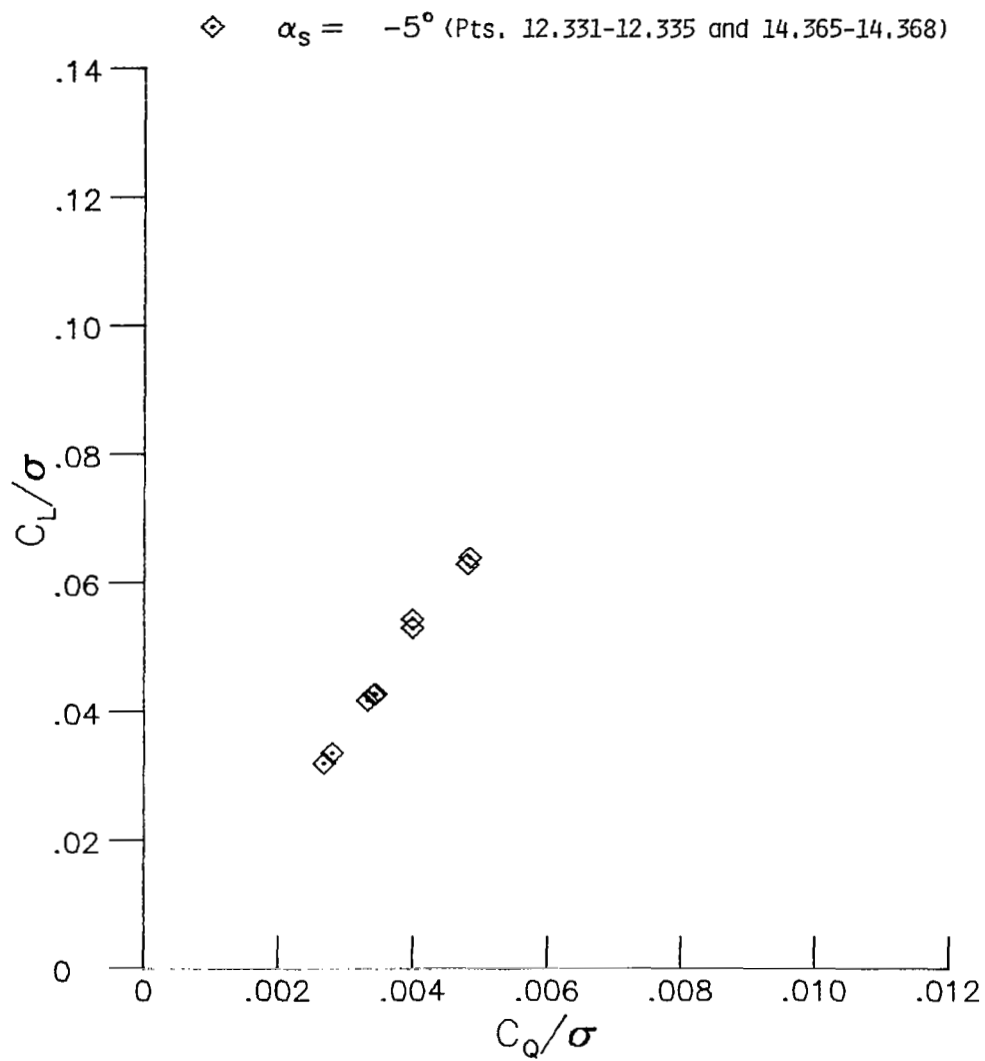
(d) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 7.- Continued.



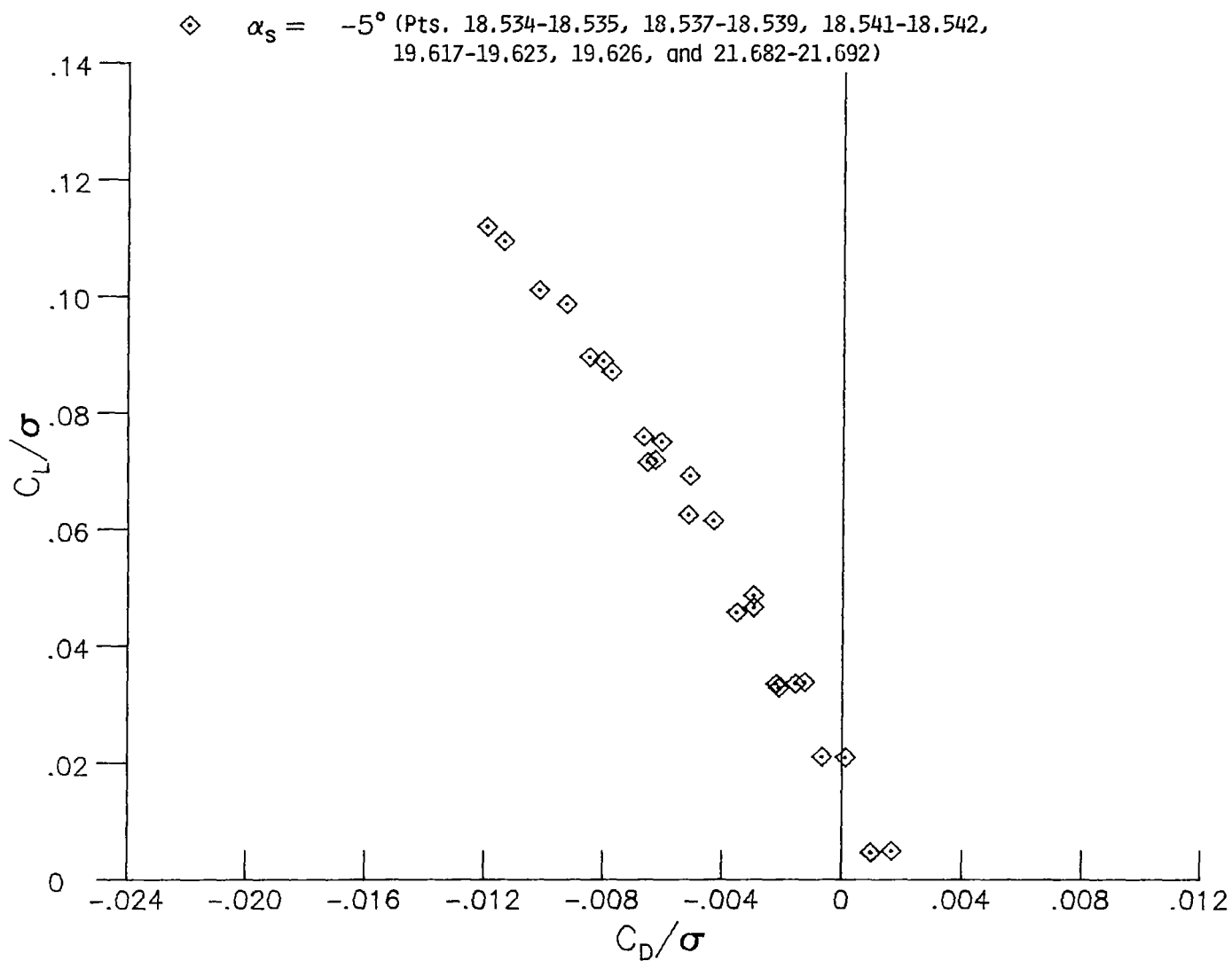
(e) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.65$.

Figure 7.- Continued.



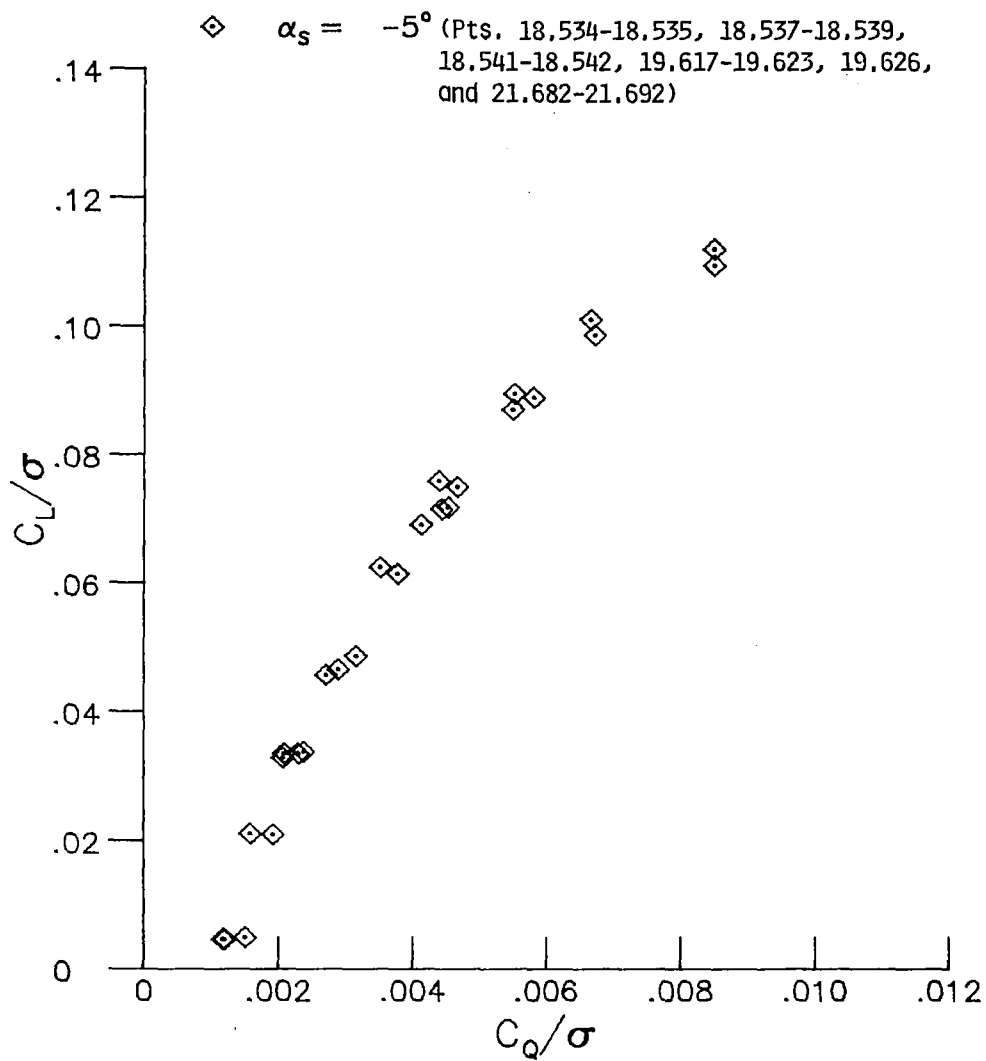
(f) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.65$.

Figure 7.- Concluded.



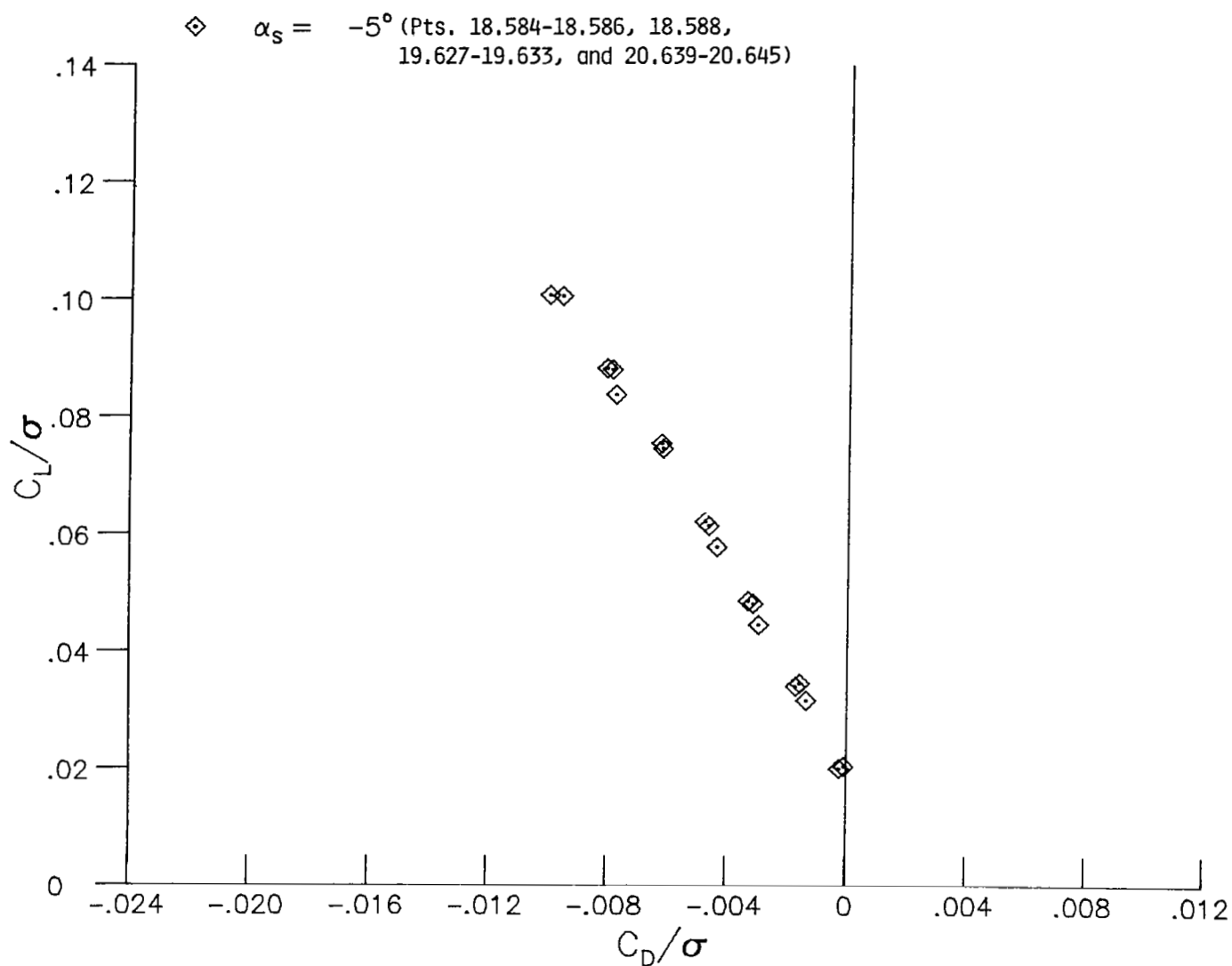
(a) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 8.- Rotor performance data for baseline blade with swept tip and 0° tabs. (See table IV.)



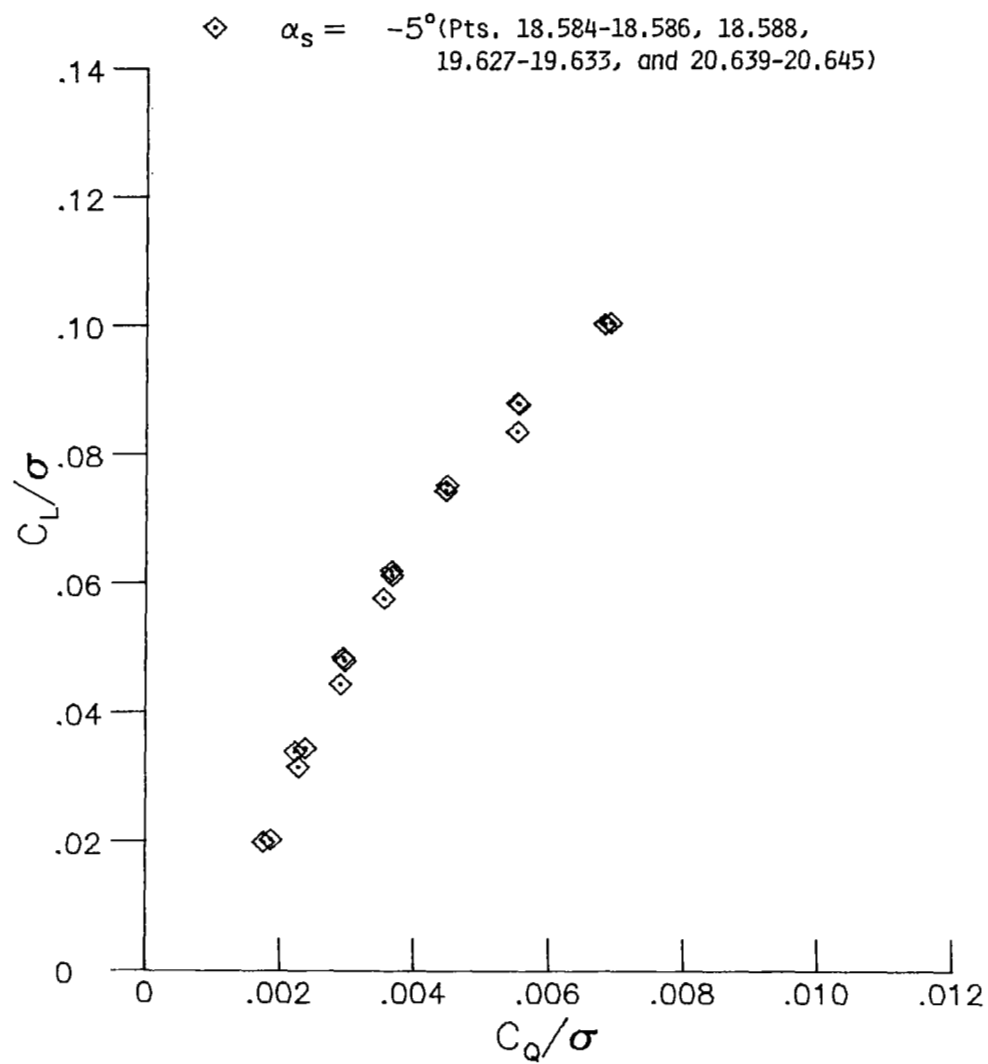
(b) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 8.- Continued.



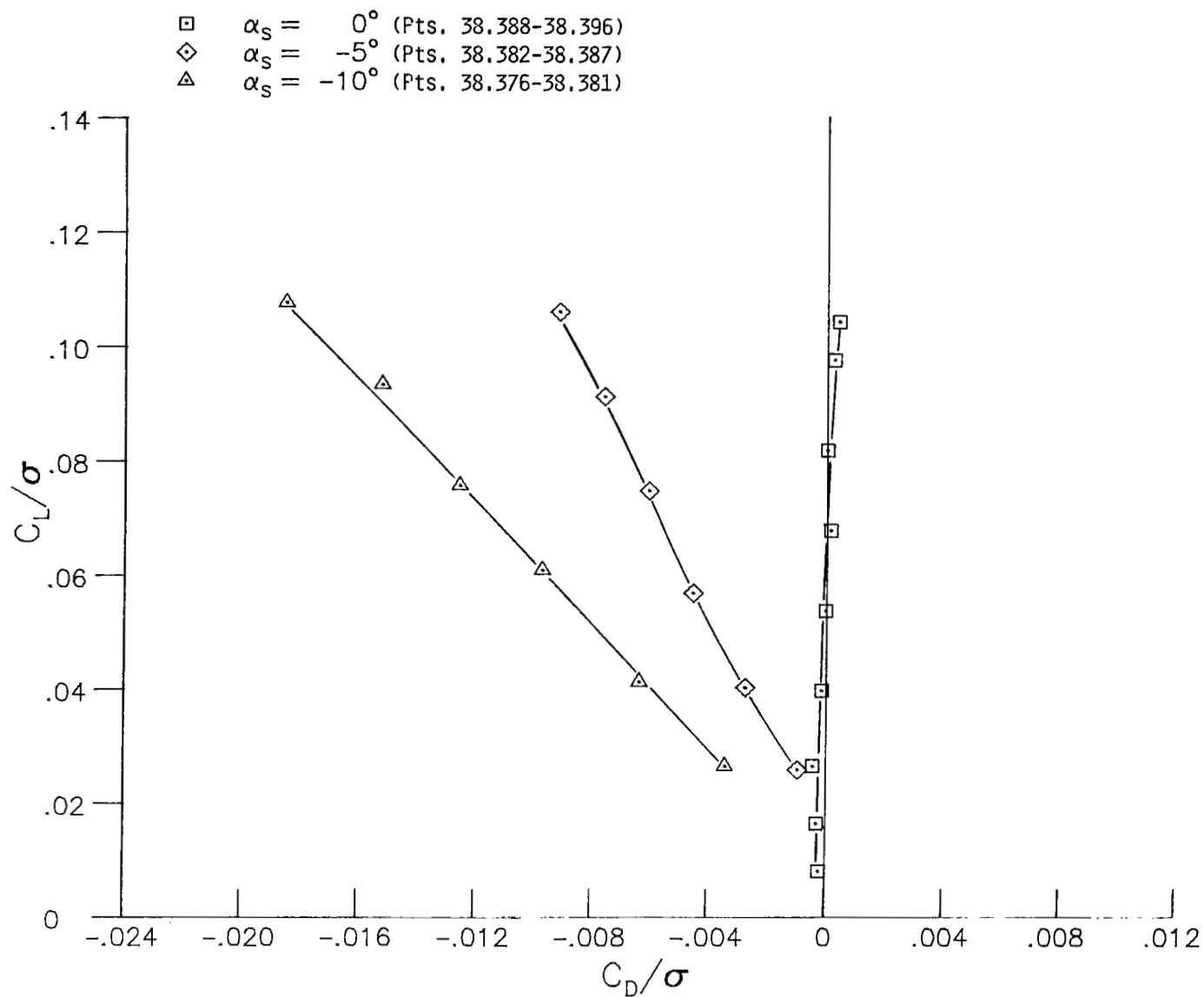
(c) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.68$.

Figure 8.- Continued.



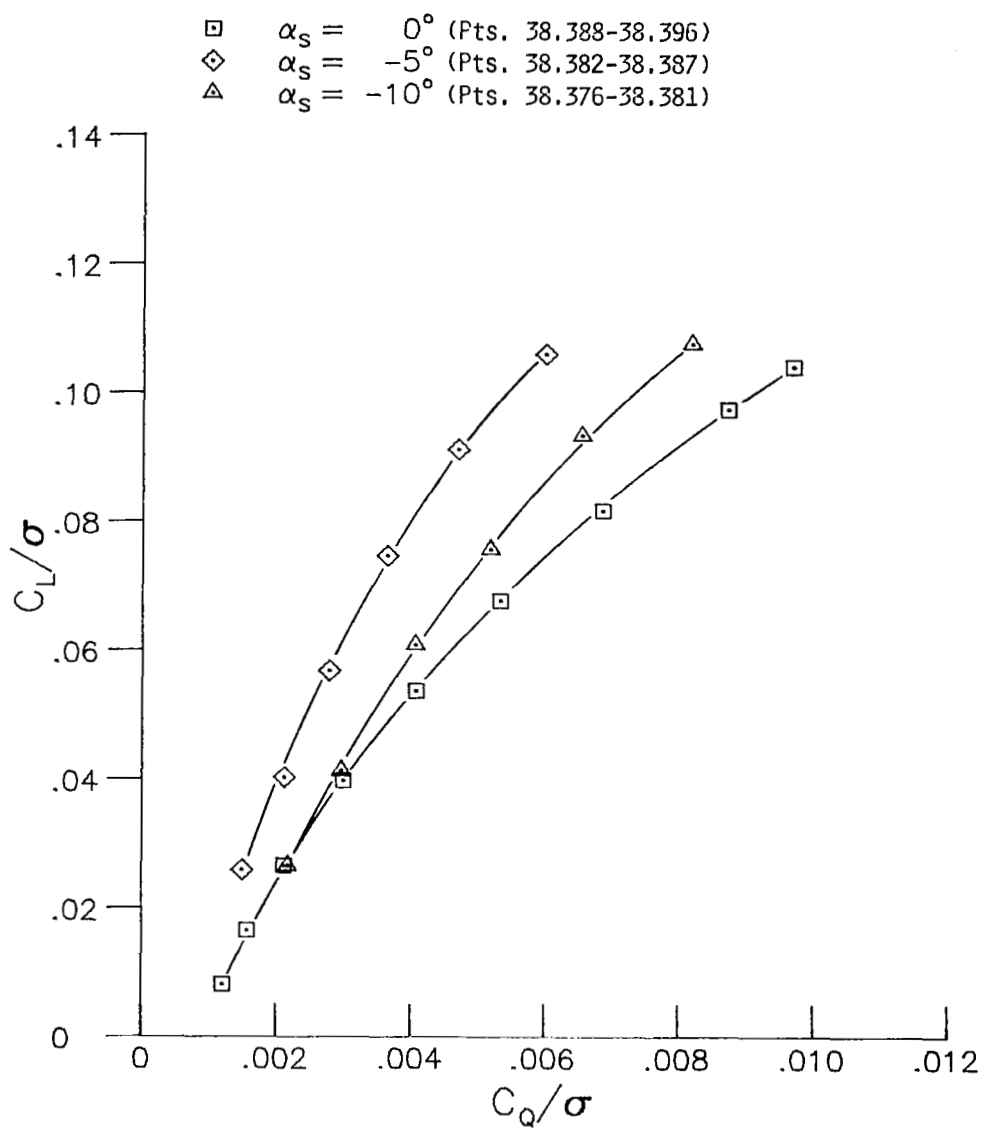
(d) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.68$.

Figure 8.- Concluded.



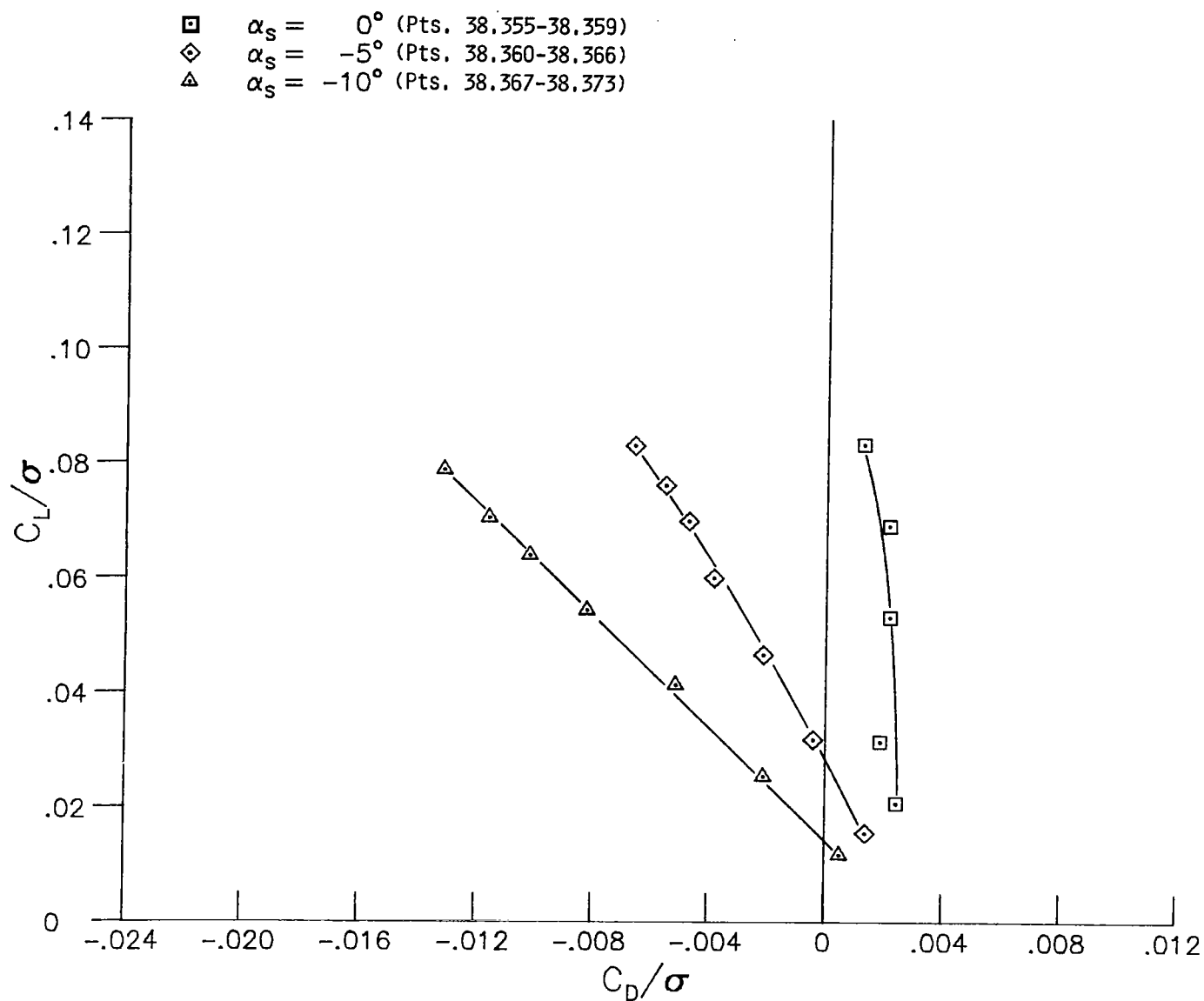
(a) C_L/σ versus C_D/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 9.- Rotor performance data for ACR blade with rectangular tip and 0° tabs.



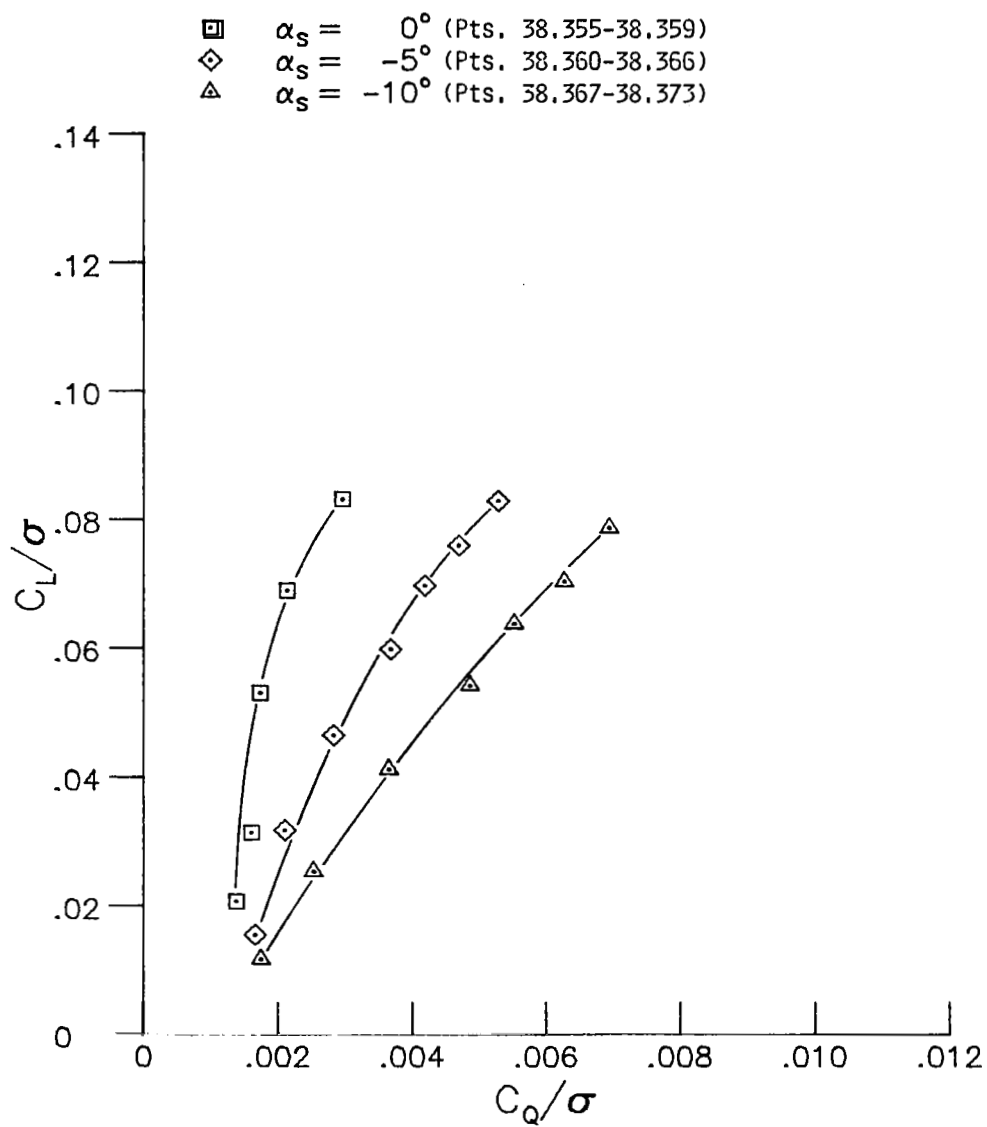
(b) C_L/σ versus C_Q/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 9.- Continued.



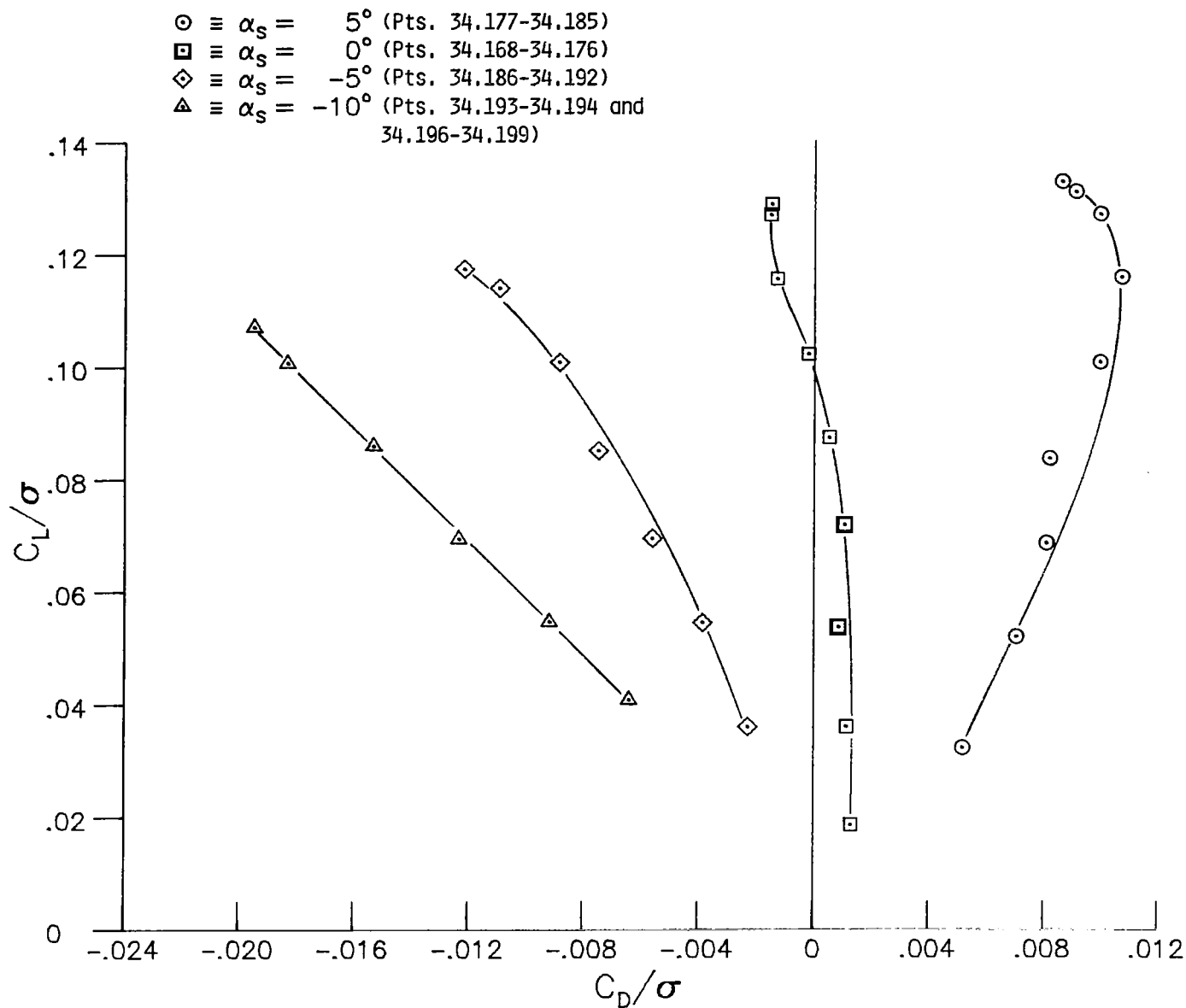
(c) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 9.- Continued.



(d) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.65$.

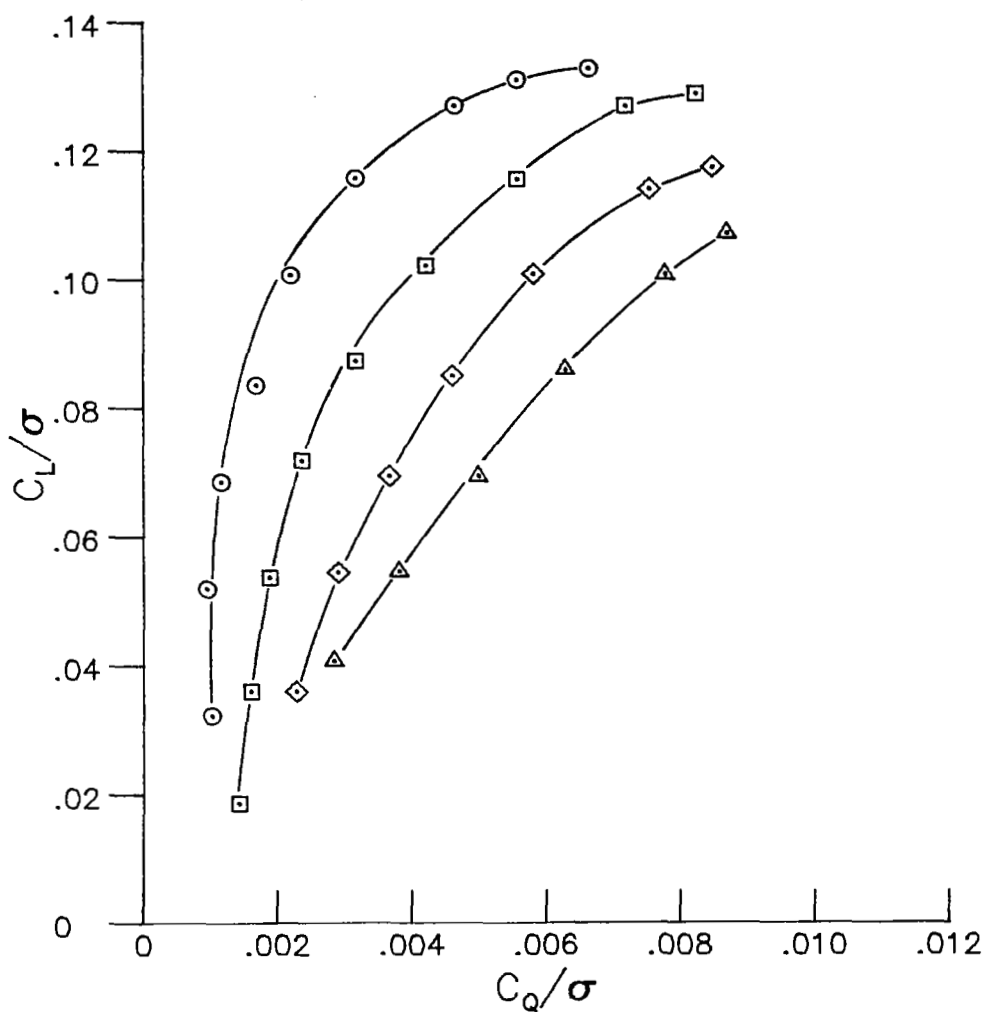
Figure 9.- Concluded.



(a) C_L/σ versus C_D/σ at $\mu = 0.20$ and $M_T = 0.65$.

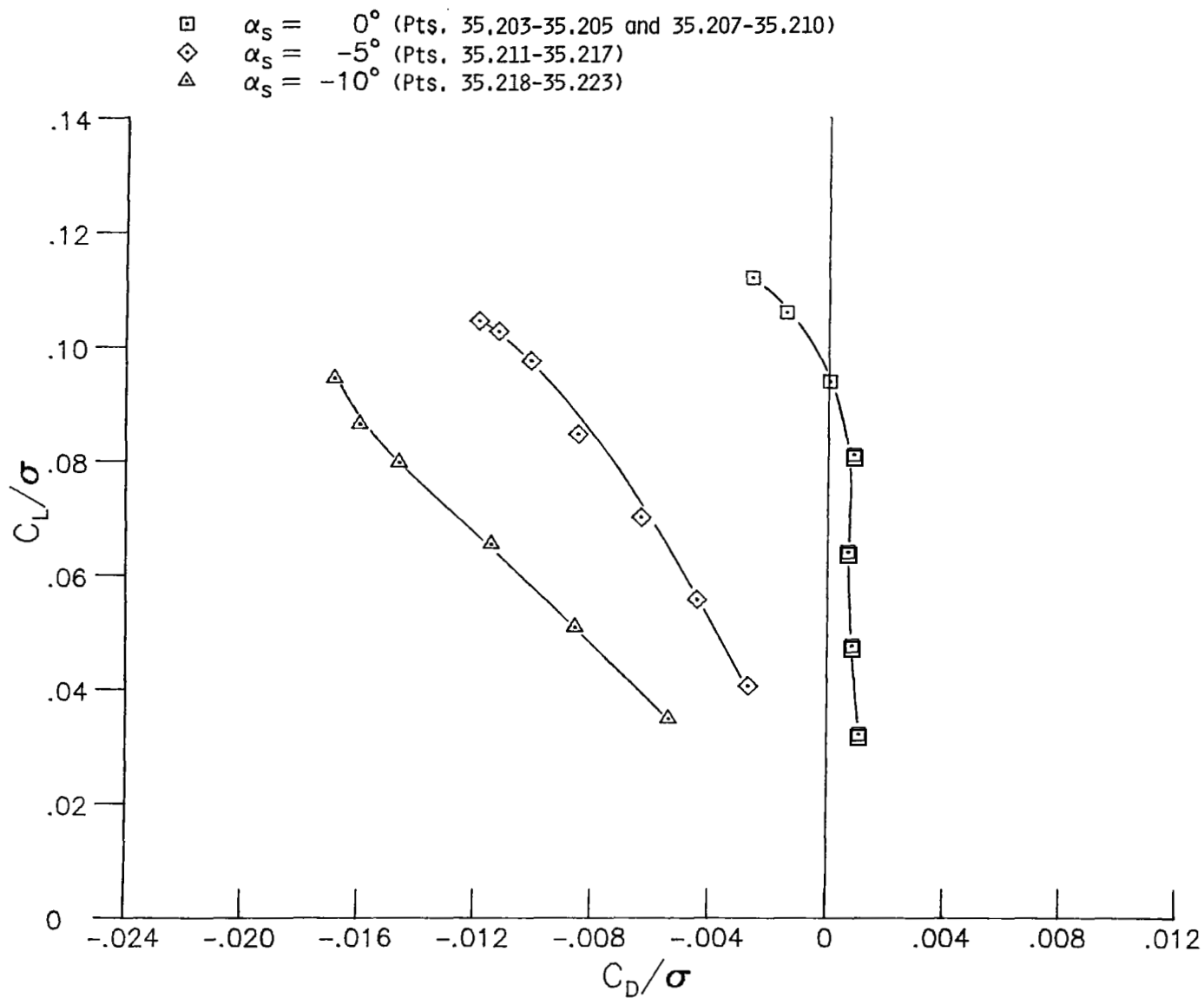
Figure 10.- Rotor performance data for ACR blade with rectangular tip and 4° tabs.

- \circ $\alpha_s = 5^\circ$ (Pts. 34,177-34,185)
 \square $\alpha_s = 0^\circ$ (Pts. 34,168-34,176)
 \diamond $\alpha_s = -5^\circ$ (Pts. 34,186-34,192)
 \triangle $\alpha_s = -10^\circ$ (Pts. 34,193-34,194 and 34,196-34,199).



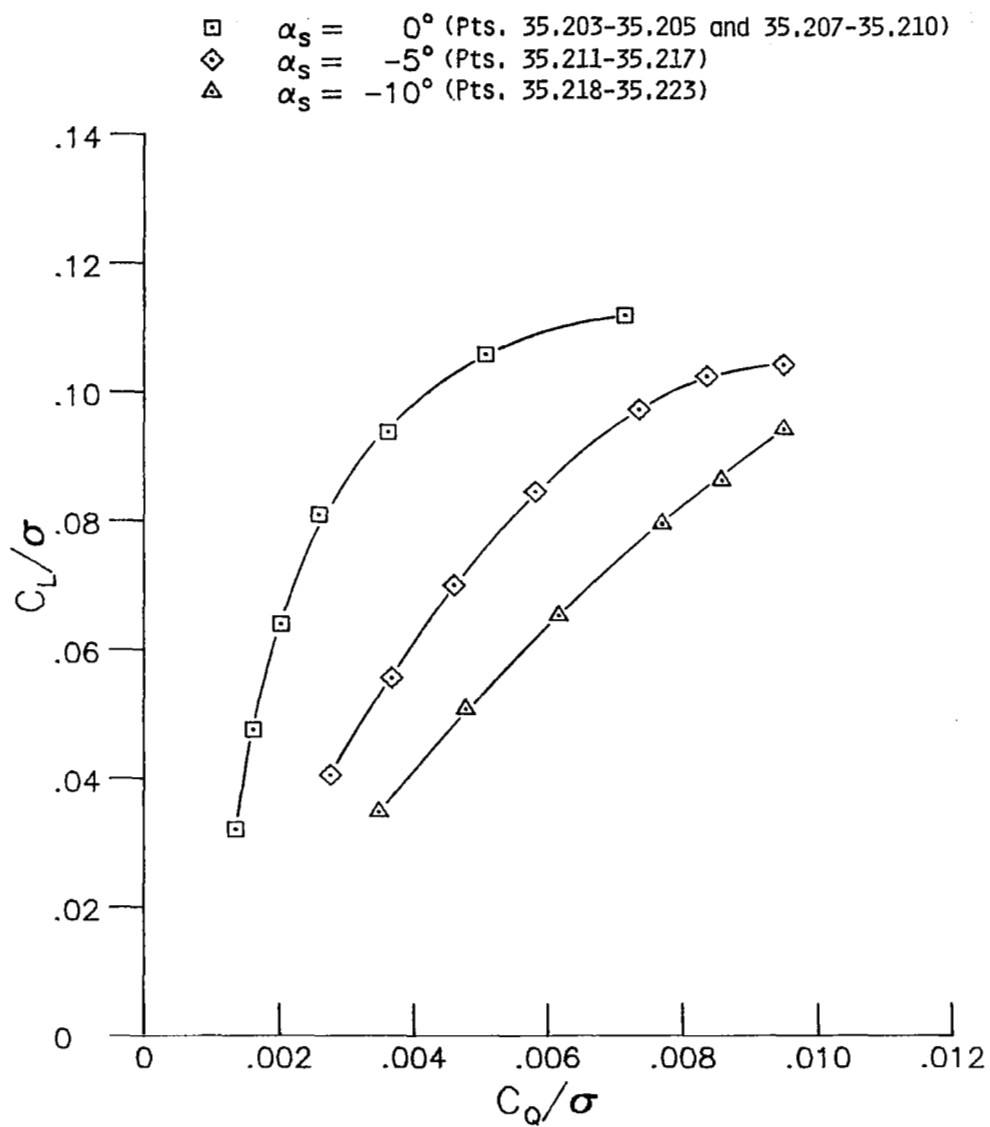
(b) C_L/σ versus C_Q/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 10.- Continued.



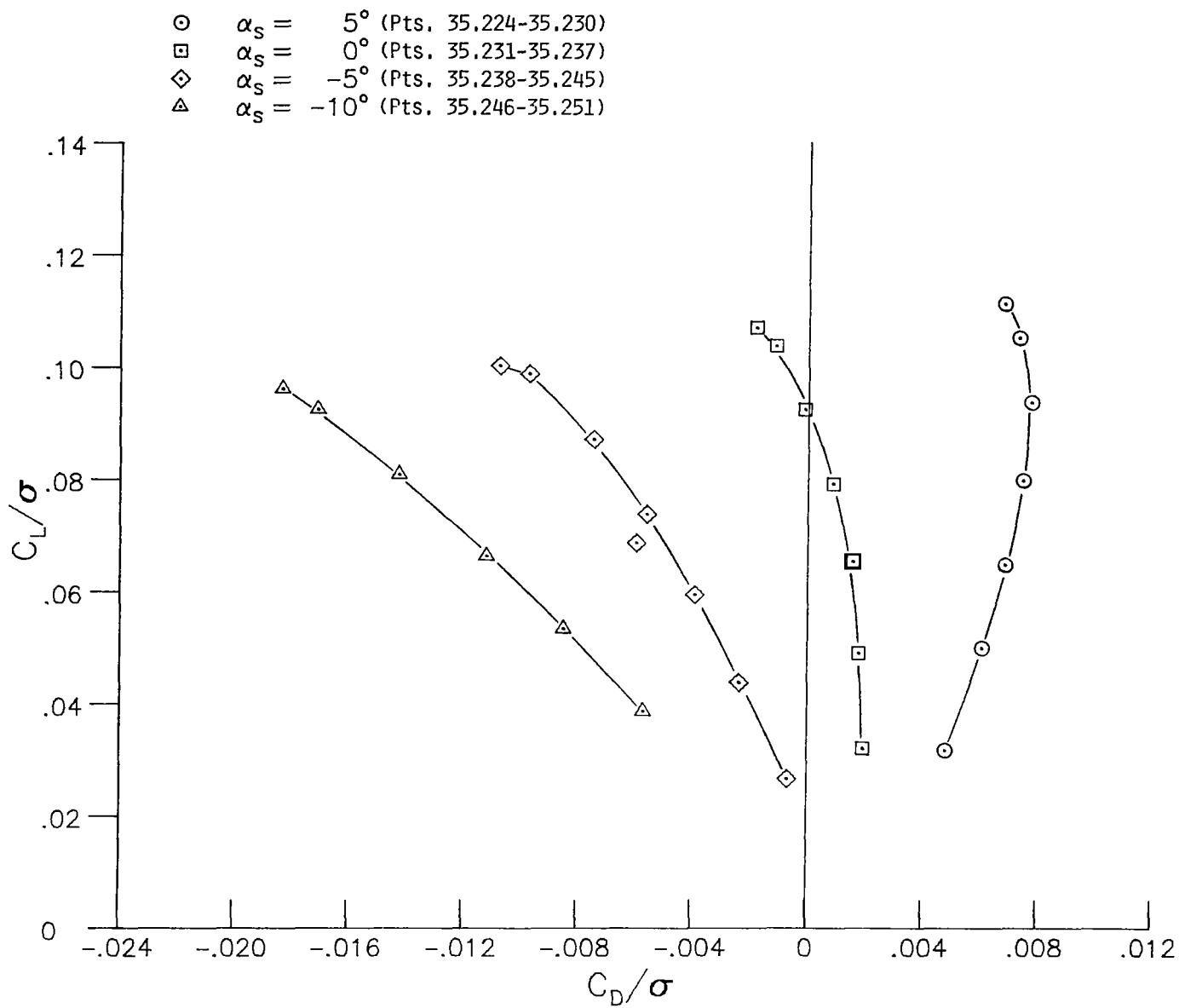
(c) C_L/σ versus C_D/σ for $\mu = 0.30$ and $M_T = 0.62$.

Figure 10.- Continued.



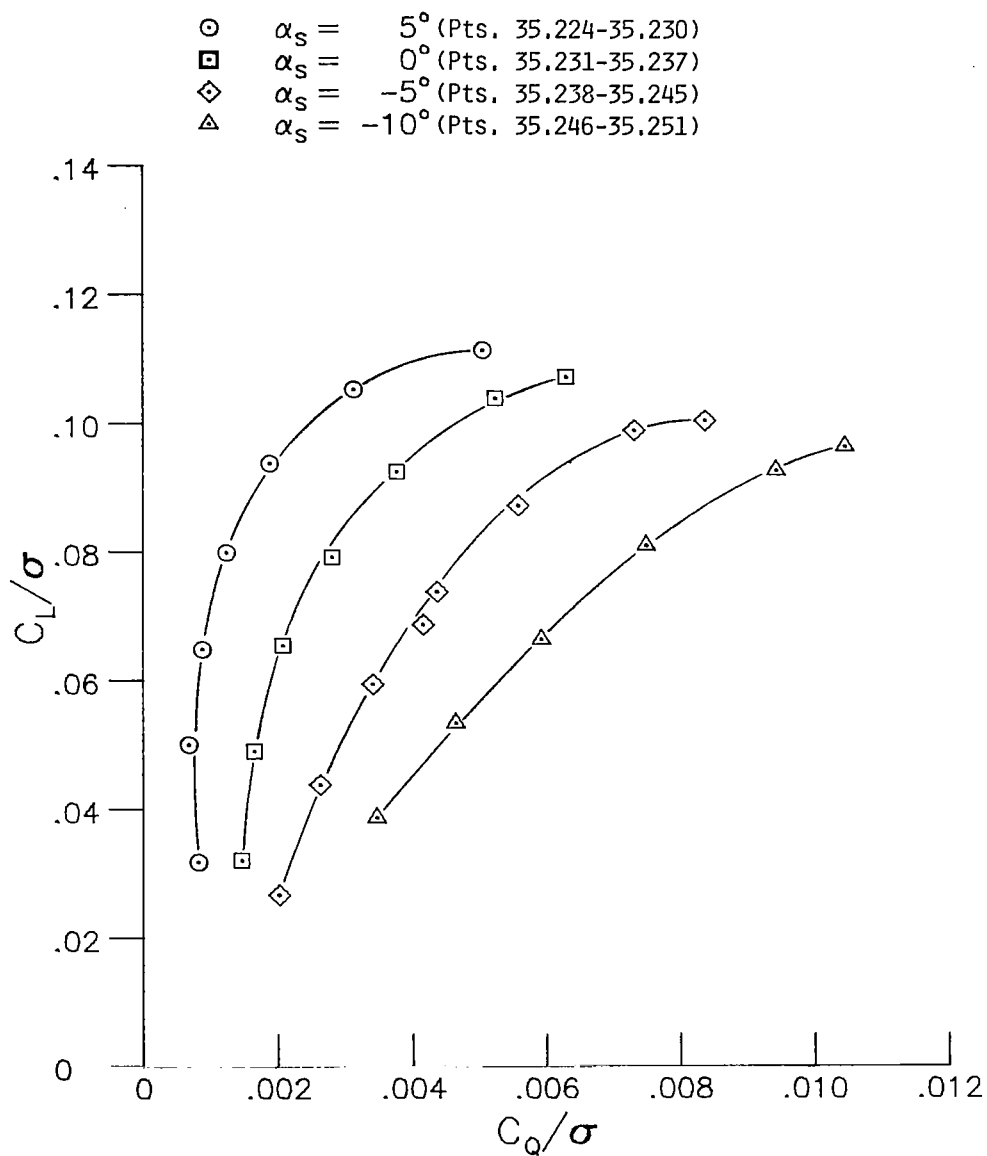
(d) C_L/σ versus C_Q/σ for $\mu = 0.30$ and $M_T = 0.62$.

Figure 10.- Continued.



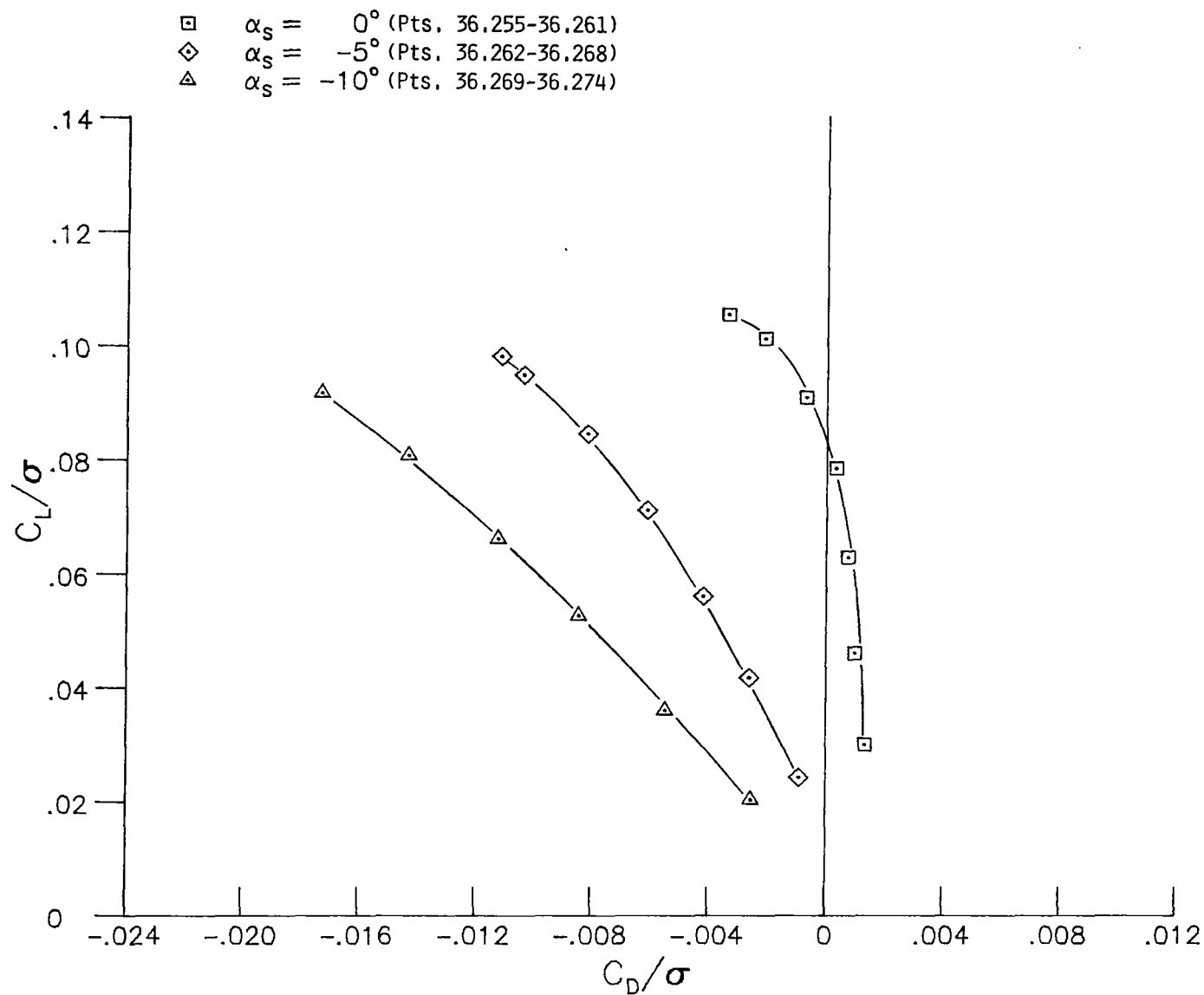
(e) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 10.- Continued.



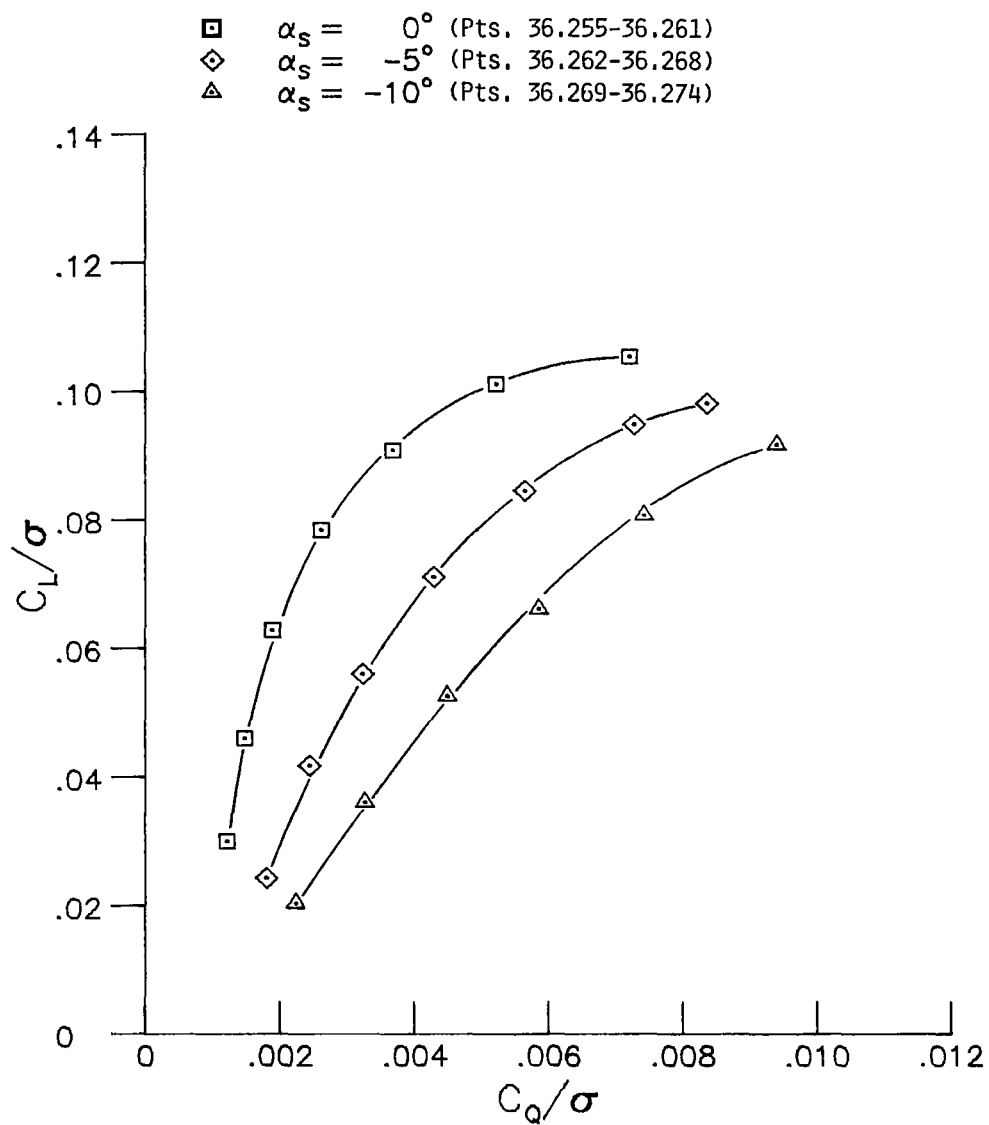
(f) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 10.- Continued.



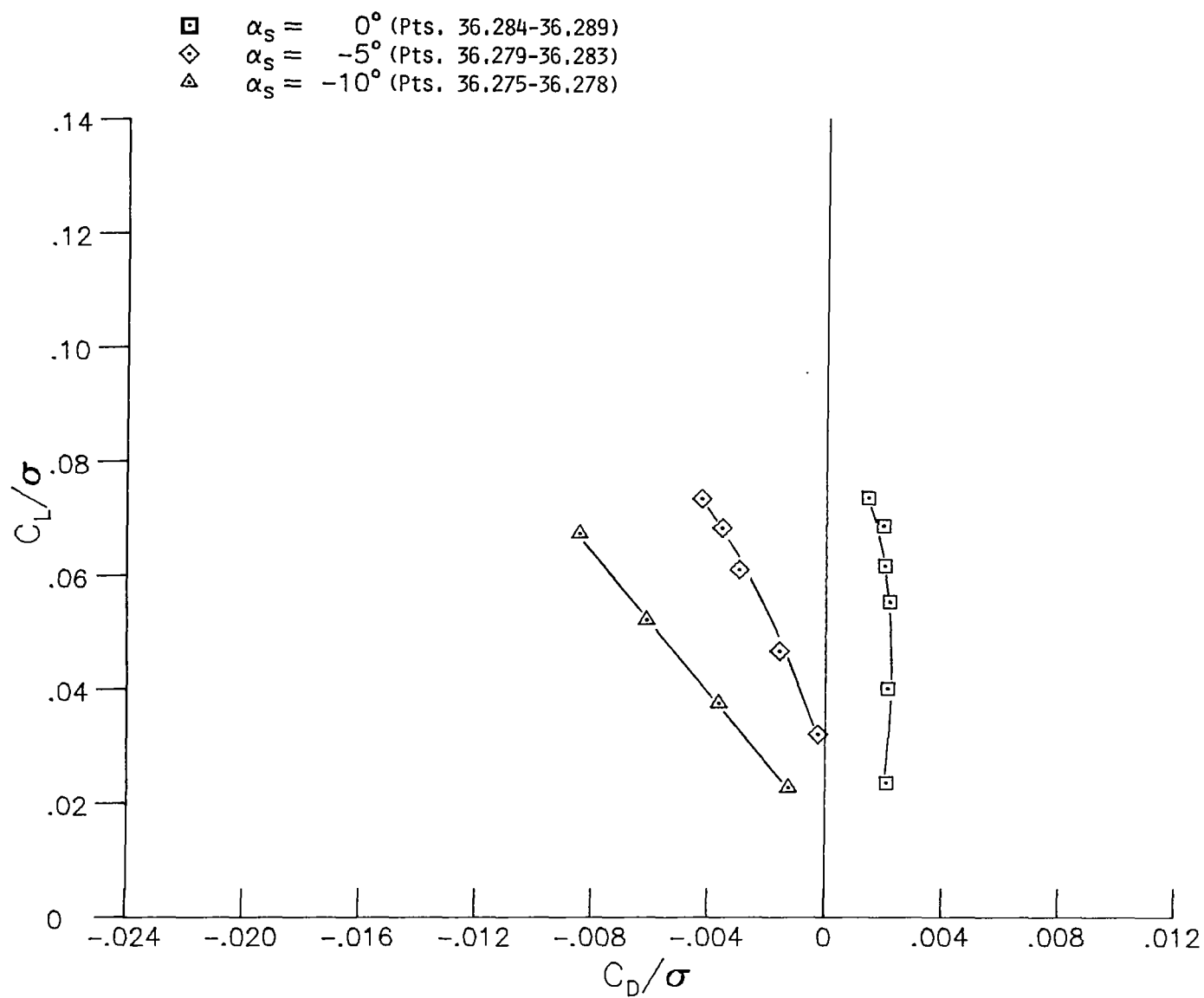
(g) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.68$.

Figure 10.- Continued.



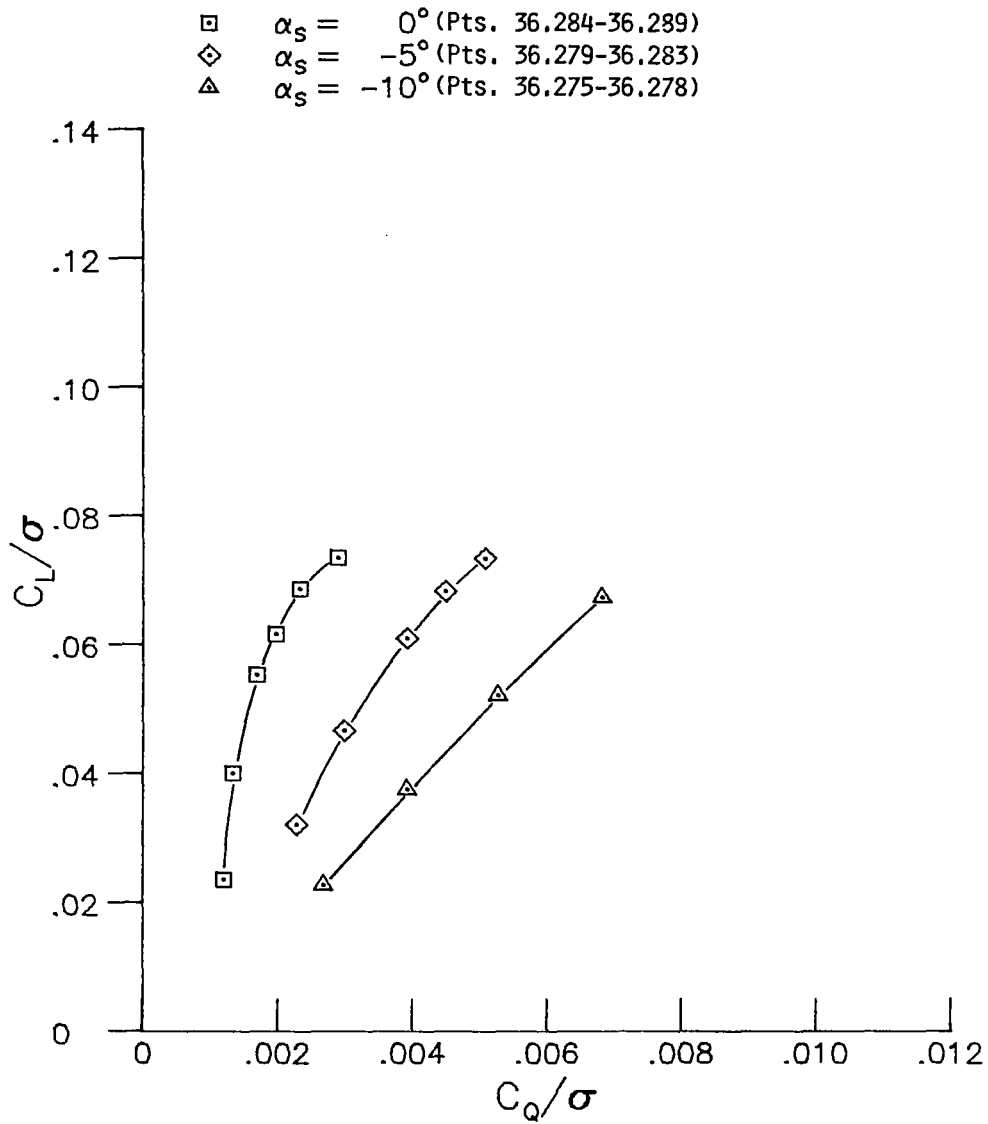
(h) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.68$.

Figure 10.- Continued.



(i) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.62$.

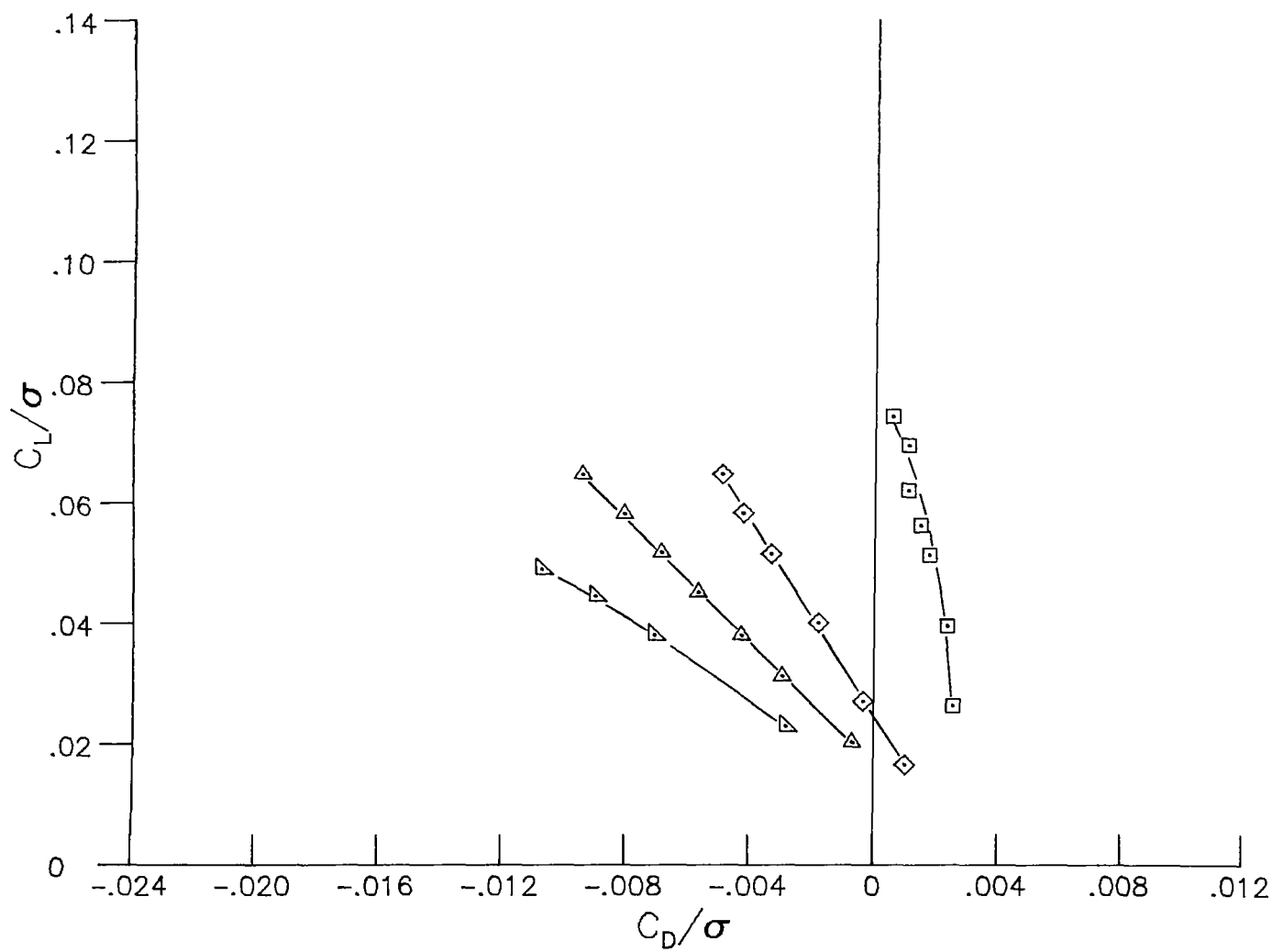
Figure 10.- Continued.



(j) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.62$.

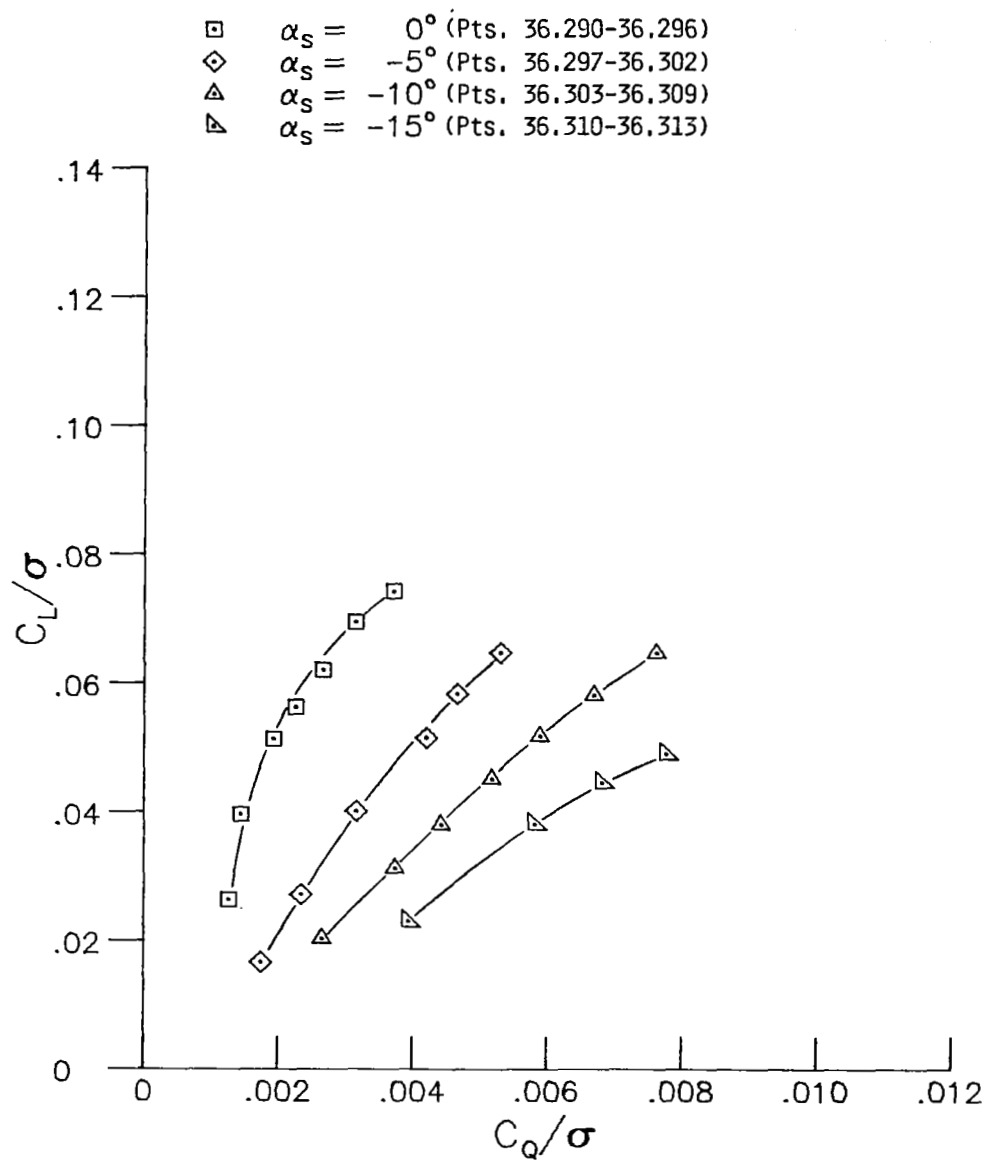
Figure 10.- Continued.

- $\alpha_s = 0^\circ$ (Pts. 36.290-36.296)
- ◇ $\alpha_s = -5^\circ$ (Pts. 36.297-36.302)
- △ $\alpha_s = -10^\circ$ (Pts. 36.303-36.309)
- ▽ $\alpha_s = -15^\circ$ (Pts. 36.310-36.313)



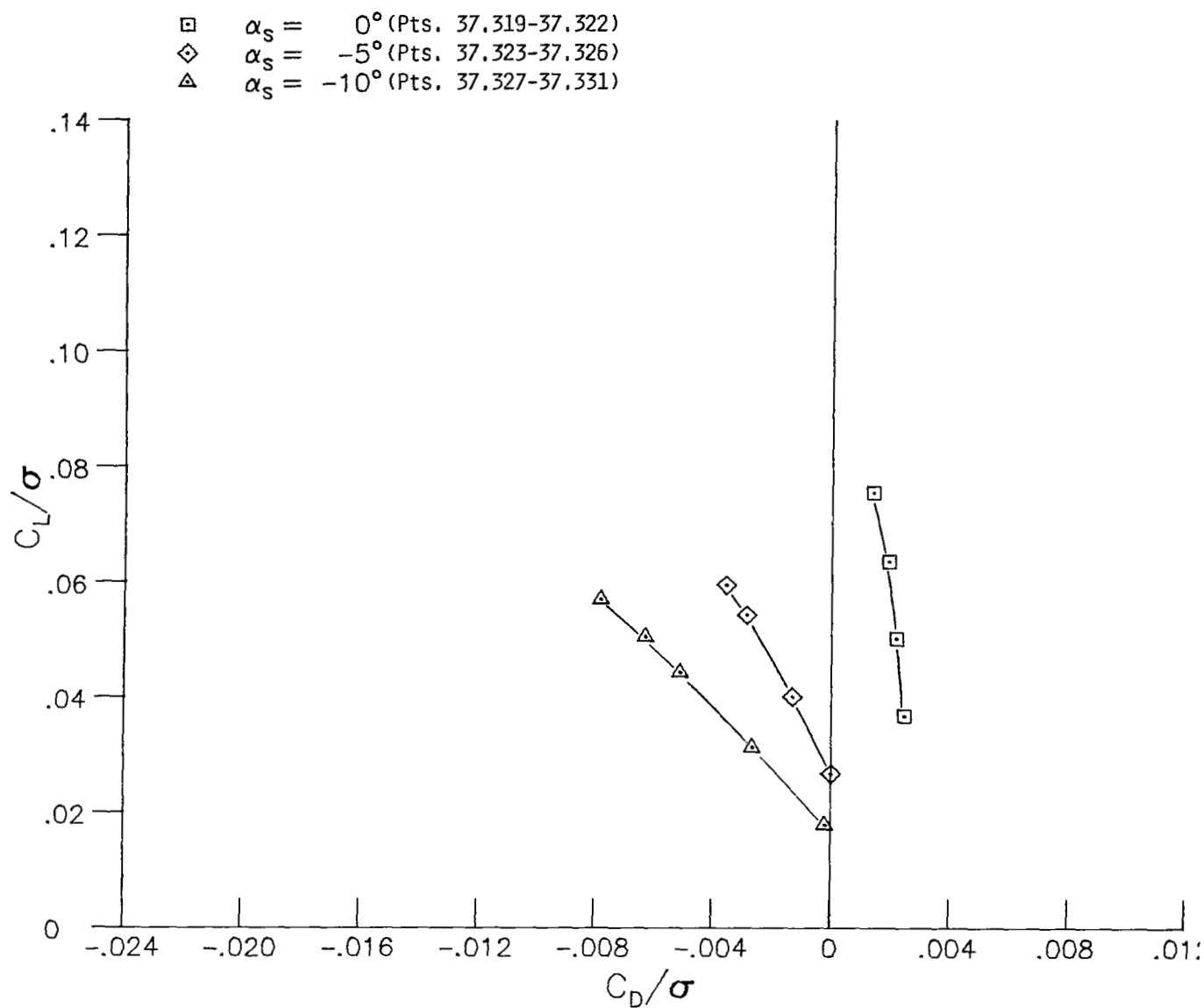
(k) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.65$.

Figure 10.- Continued.



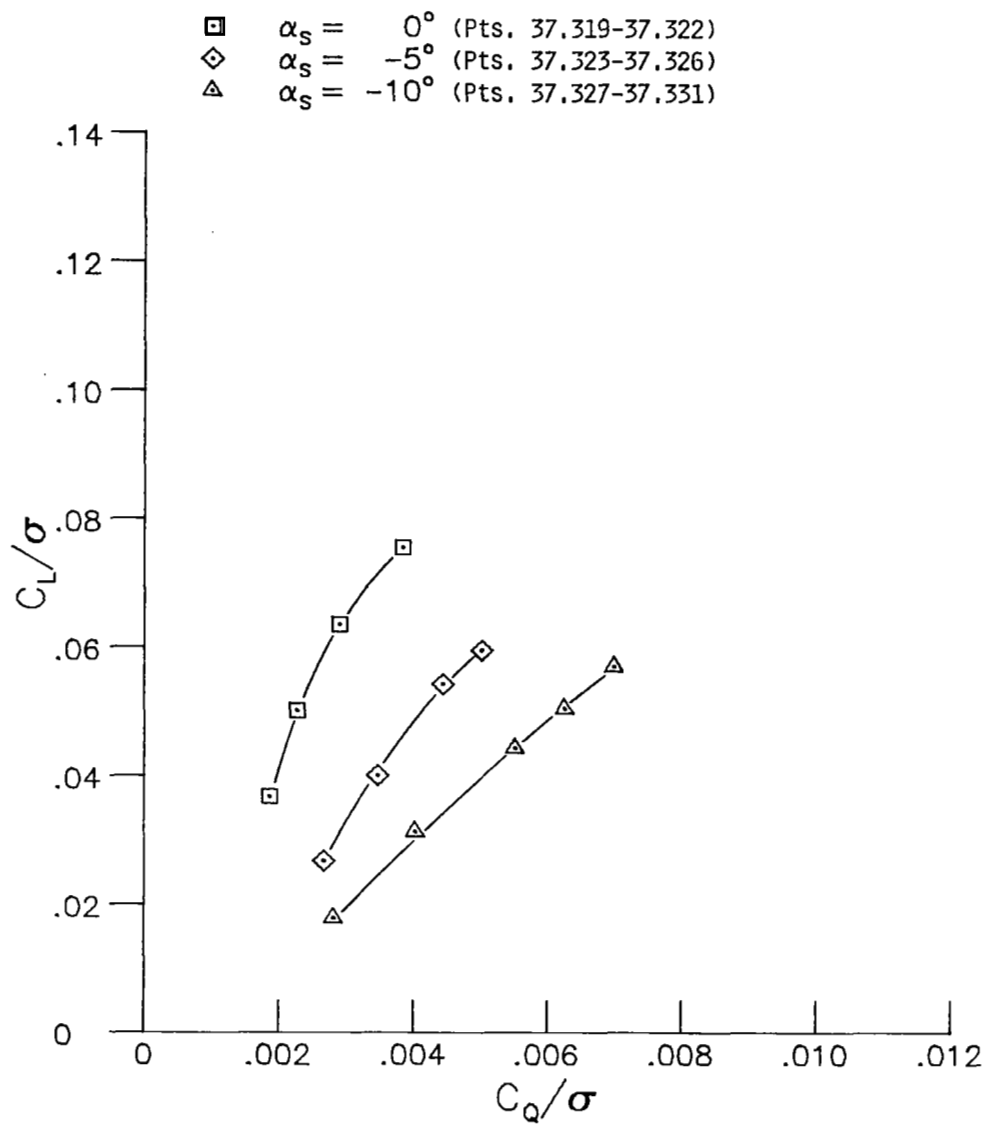
(1) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.65$.

Figure 10.- Continued.



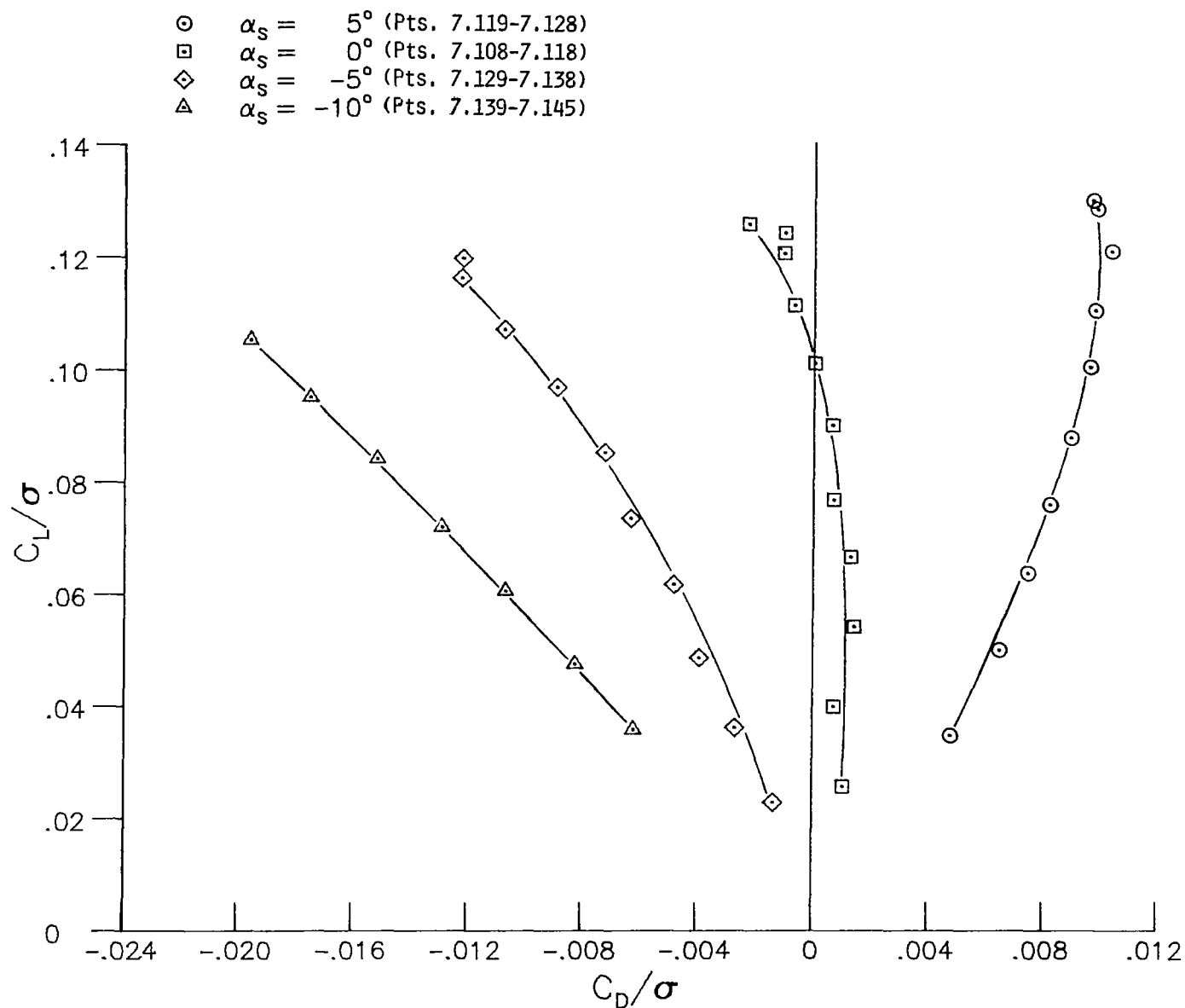
(m) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.68$.

Figure 10.- Continued.



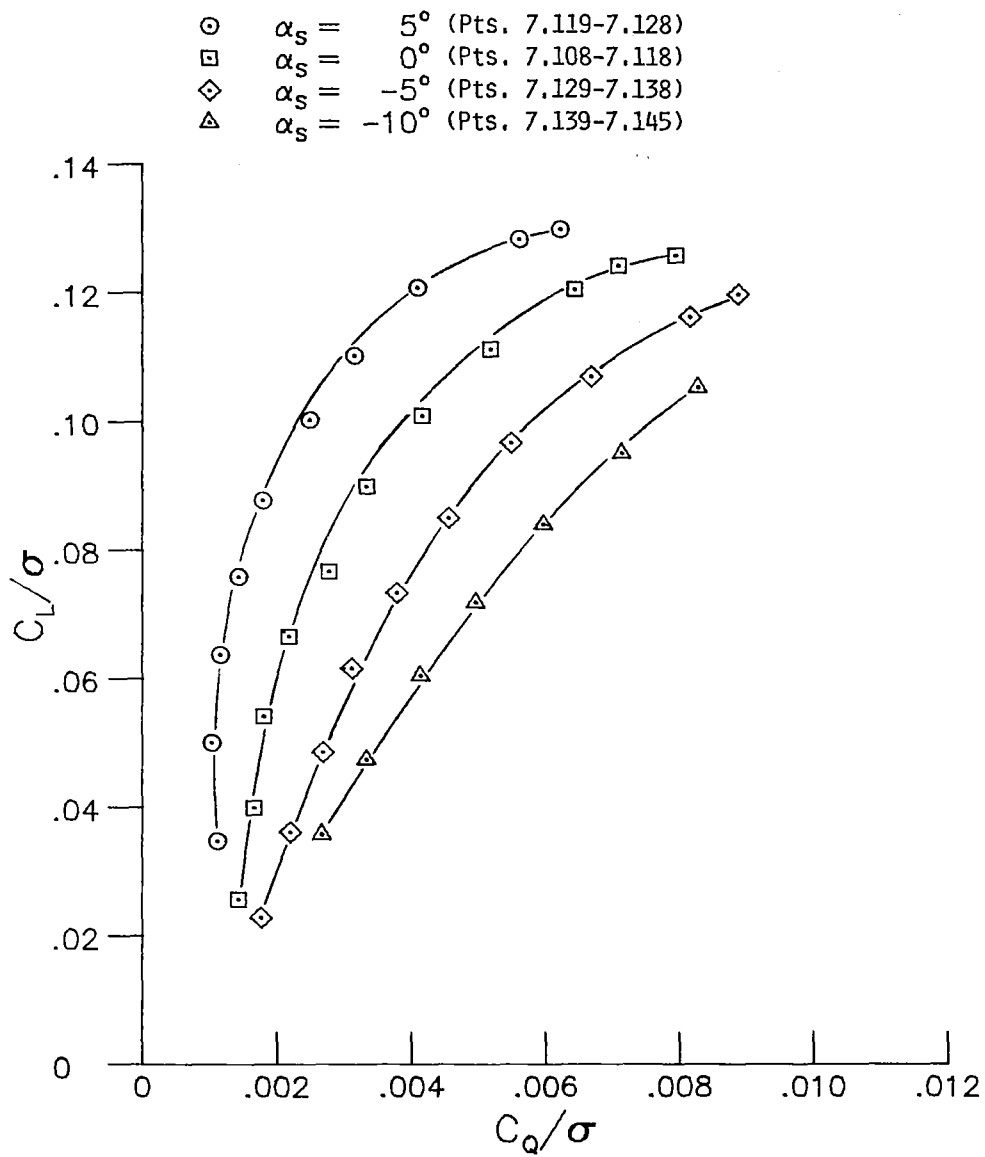
(n) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.68$.

Figure 10.- Concluded.



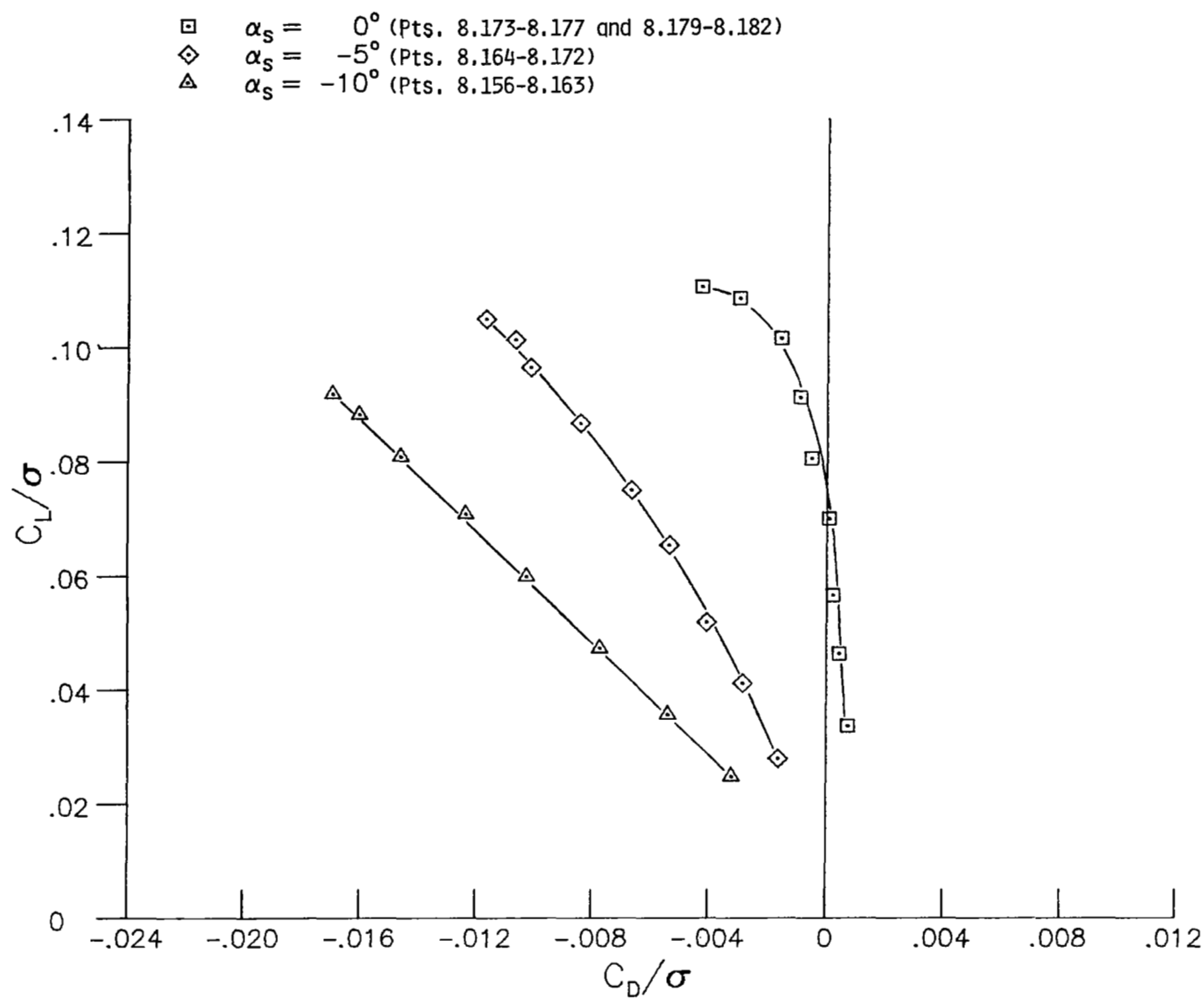
(a) C_L/σ versus C_D/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 11.- Rotor performance data for ACR blade with swept tip and 4° tabs.



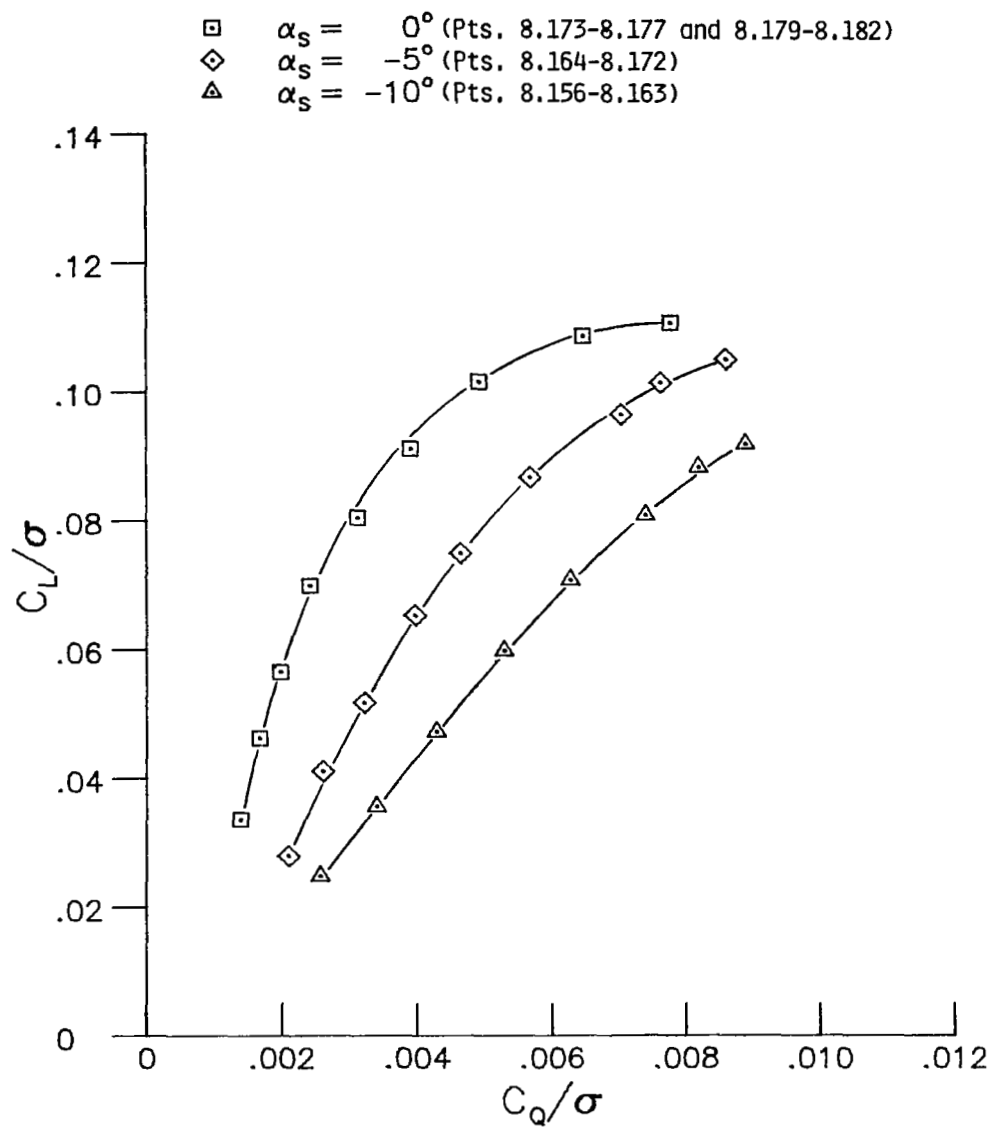
(b) C_L/σ versus C_Q/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 11.- Continued.



(c) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.62$.

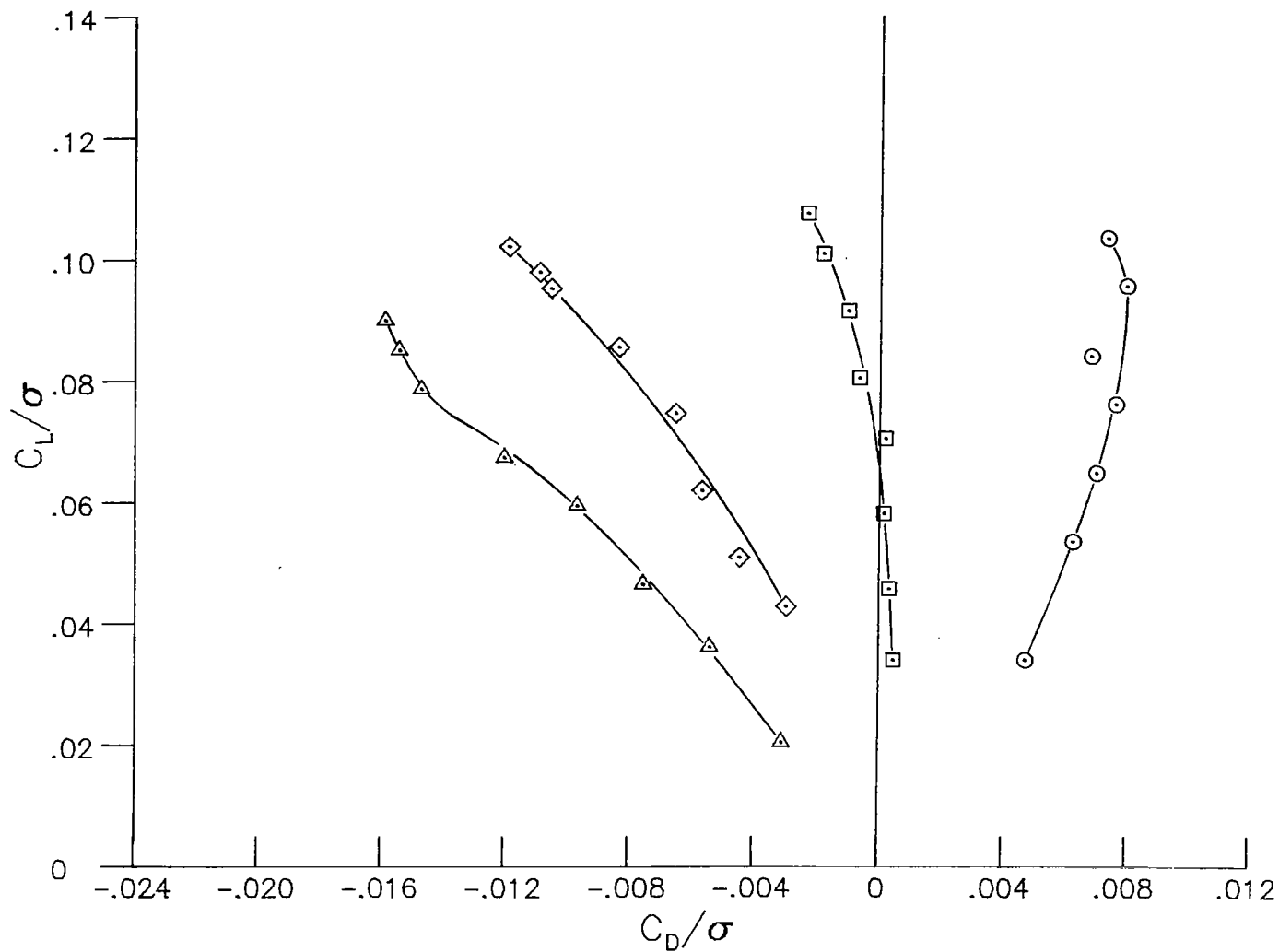
Figure 11.- Continued.



(d) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.62$.

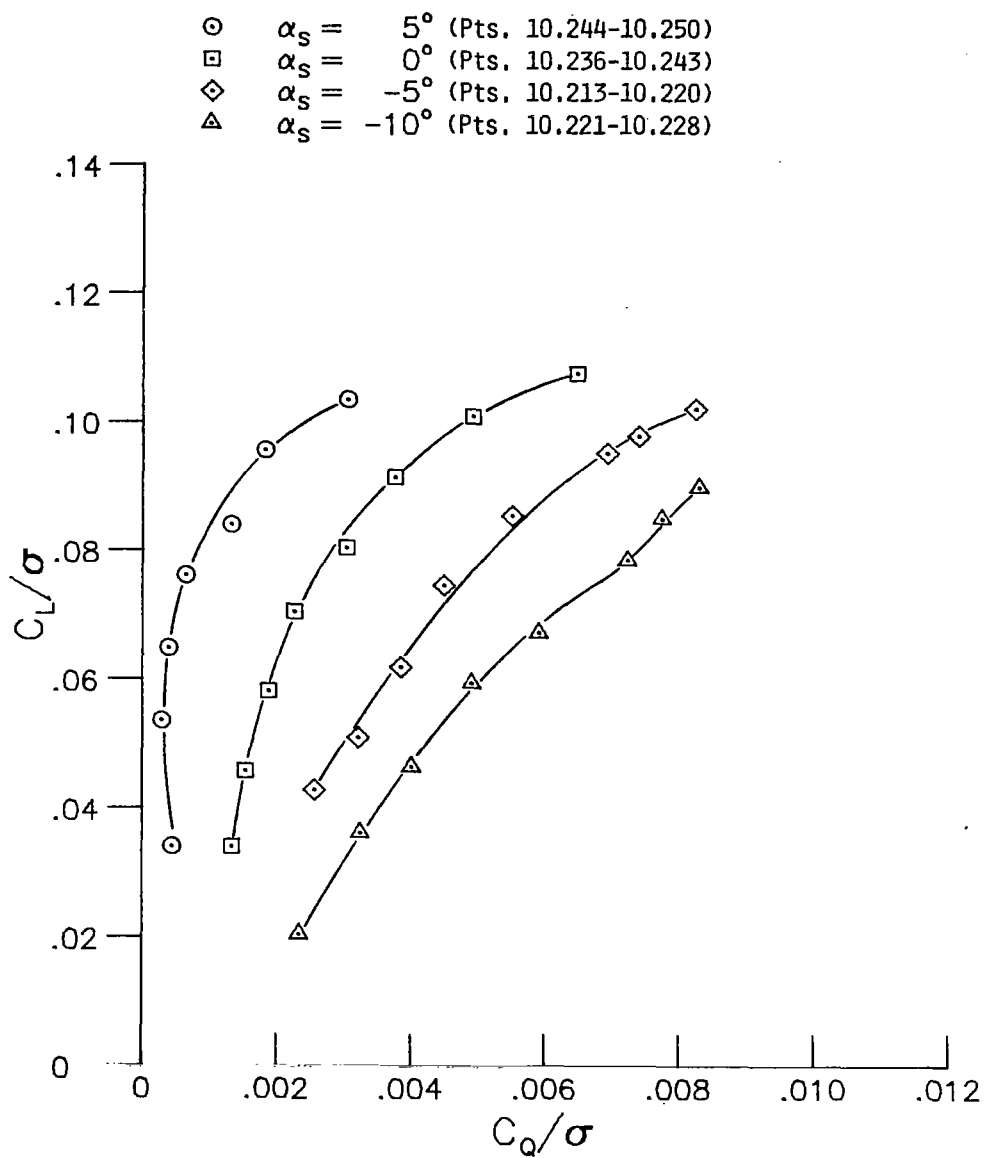
Figure 11.- Continued.

- \odot $\alpha_s = 5^\circ$ (Pts. 10.244-10.250)
 \square $\alpha_s = 0^\circ$ (Pts. 10.236-10.243)
 \diamond $\alpha_s = -5^\circ$ (Pts. 10.213-10.220)
 \triangle $\alpha_s = -10^\circ$ (Pts. 10.221-10.228)



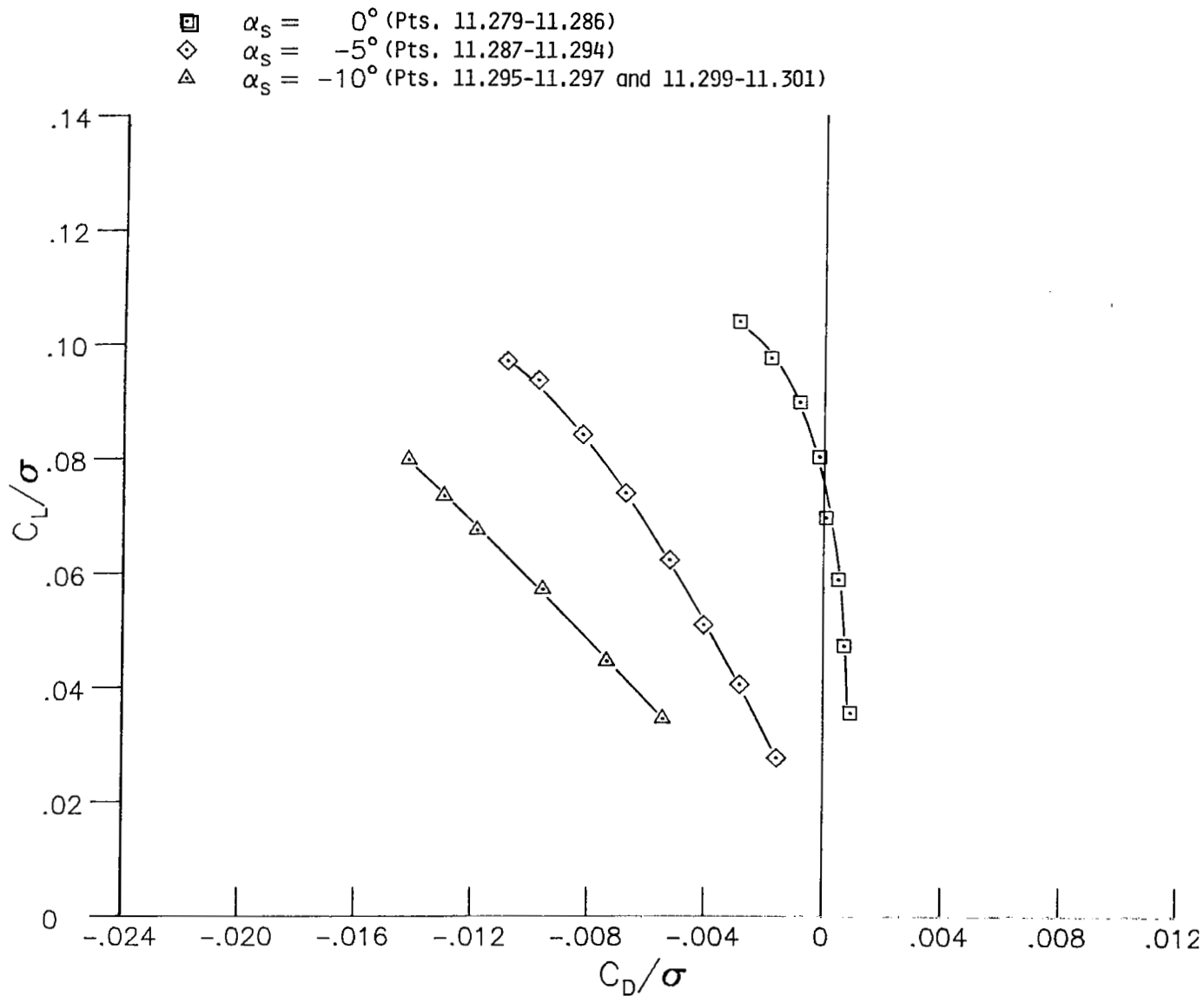
(e) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 11.- Continued.



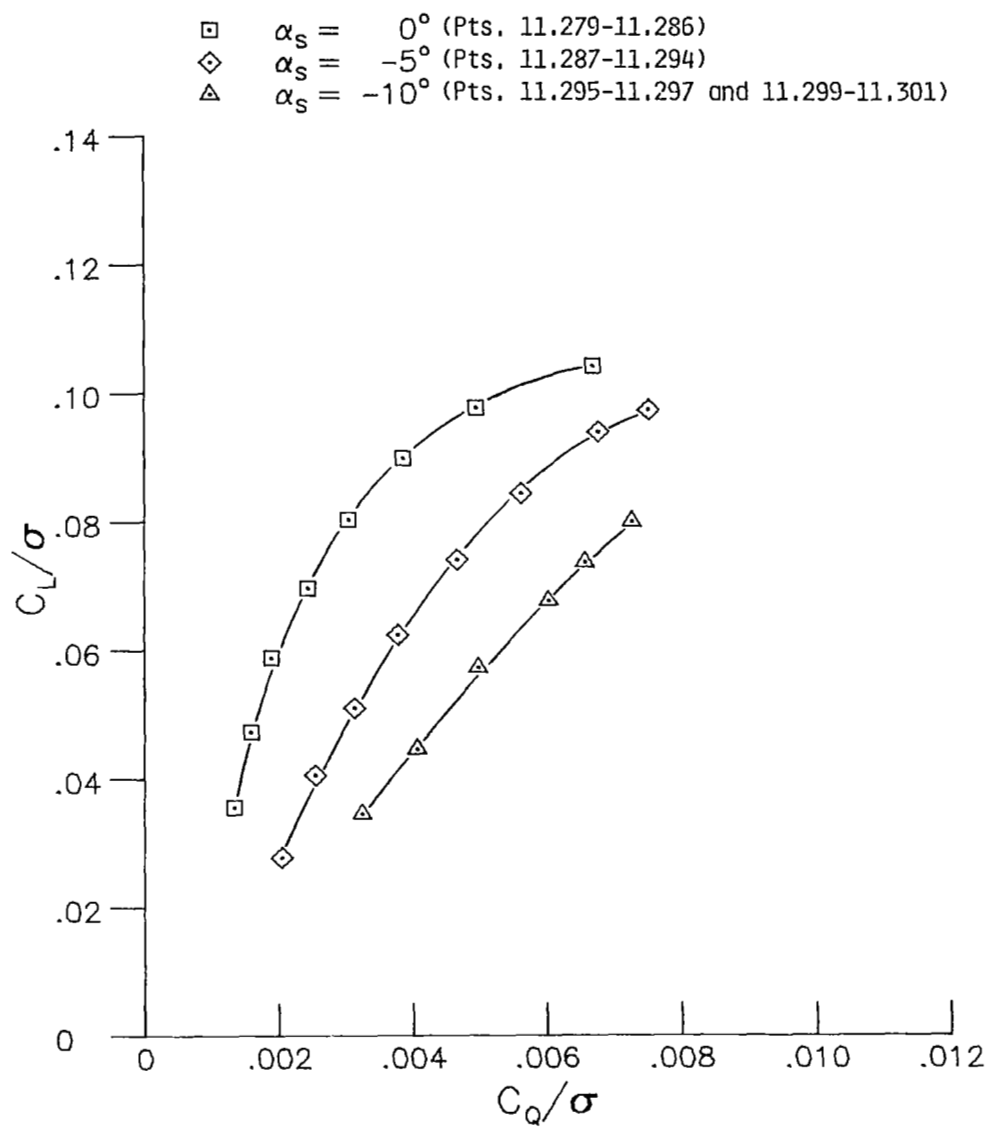
(f) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 11.- Continued.



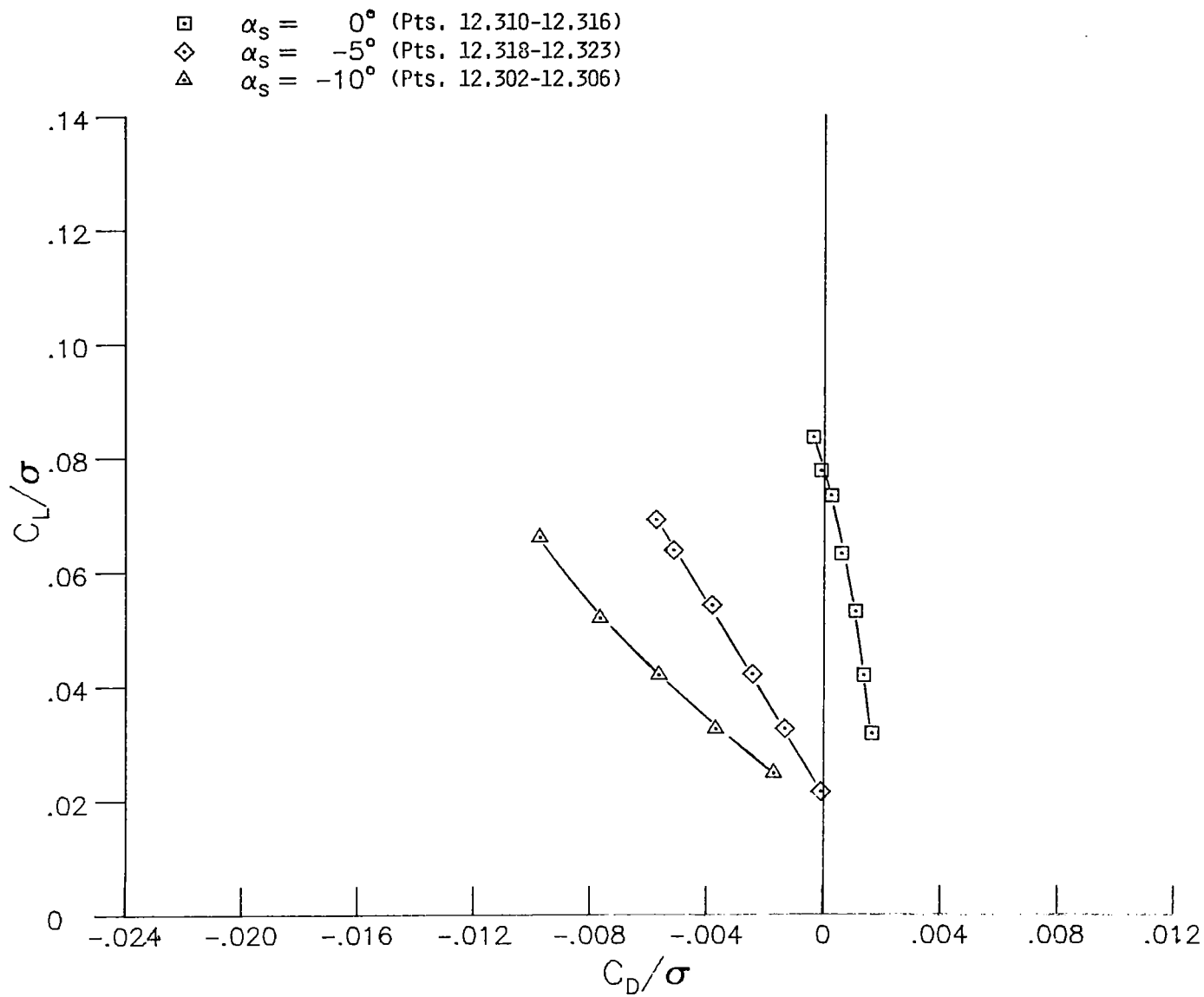
(g) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.68$.

Figure 11.- Continued.



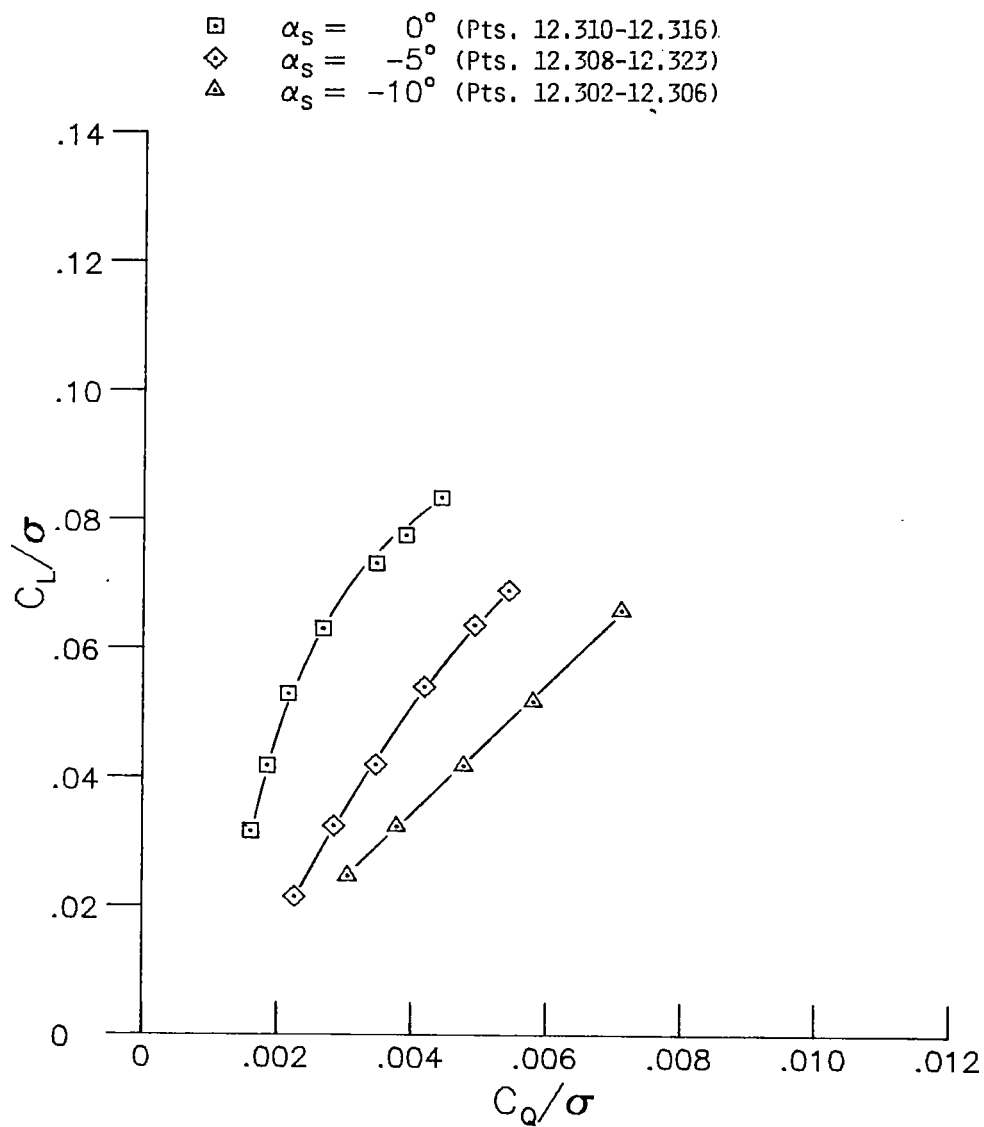
(h) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.68$.

Figure 11.- Continued.



(i) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.62$.

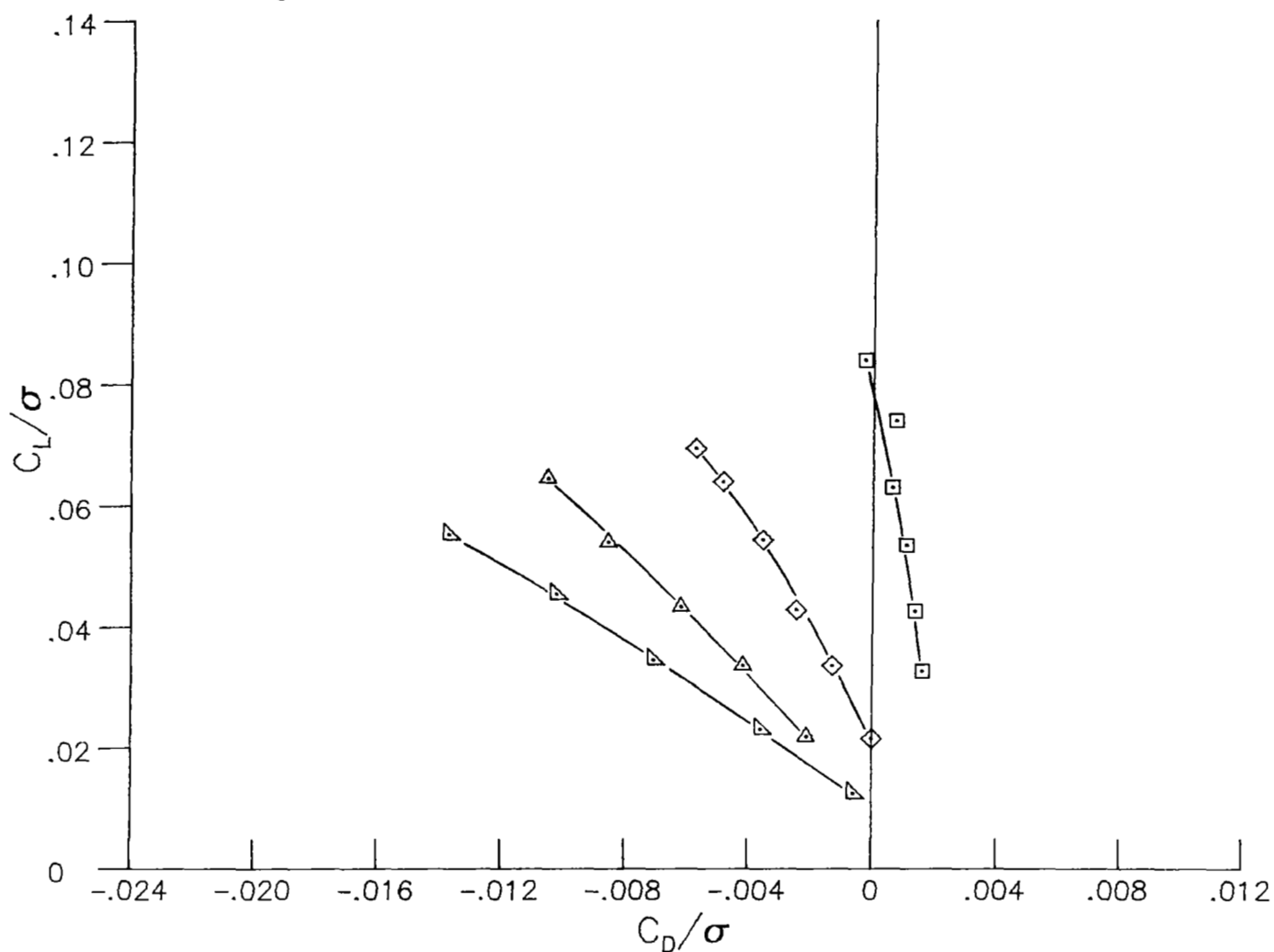
Figure 11.- Continued.



(j) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.62$.

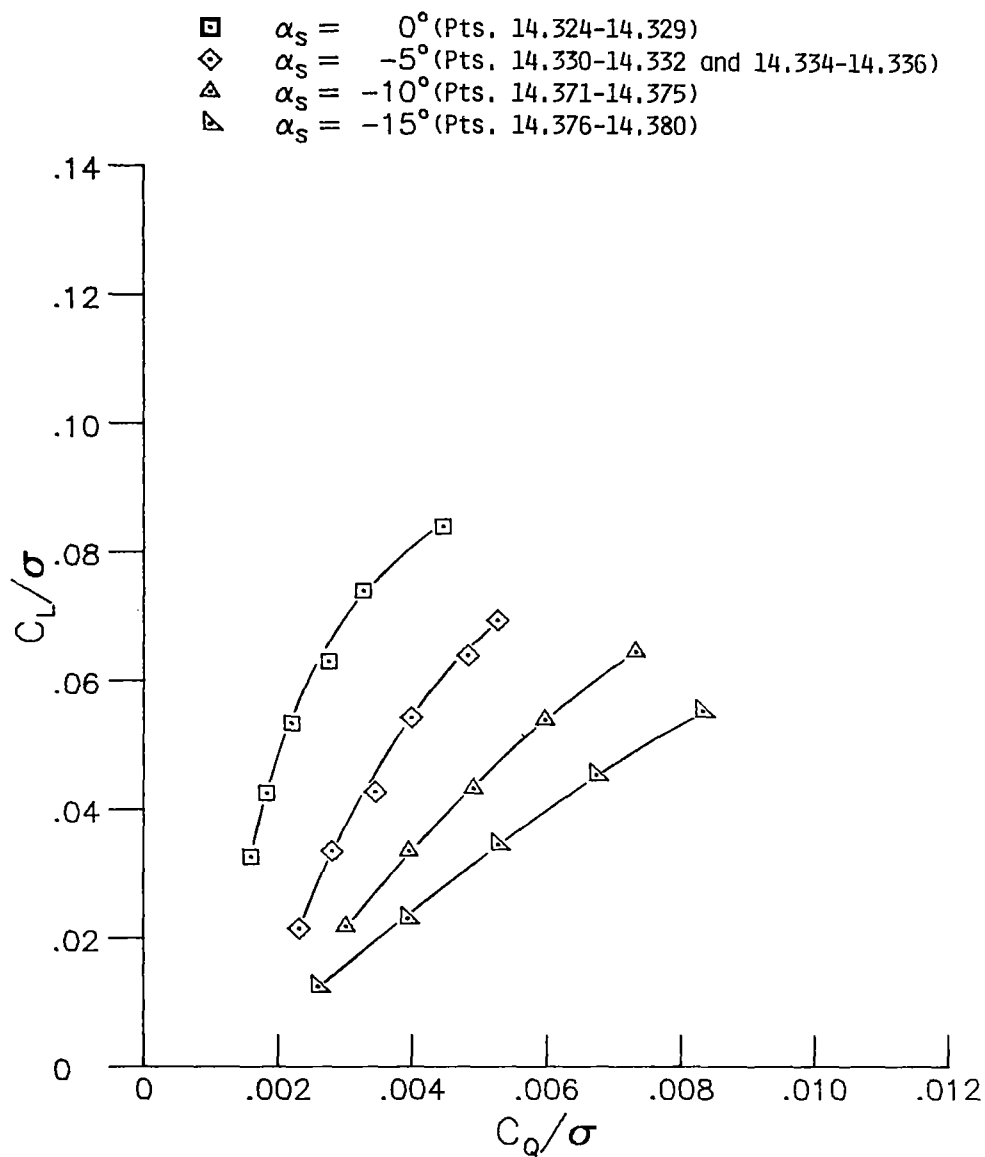
Figure 11.- Continued.

- $\alpha_s = 0^\circ$ (Pts. 14.324-14.329)
- ◇ $\alpha_s = -5^\circ$ (Pts. 14.330-14.332 and 14.334-14.336)
- △ $\alpha_s = -10^\circ$ (Pts. 14.371-14.375)
- ▽ $\alpha_s = -15^\circ$ (Pts. 14.376-14.380)



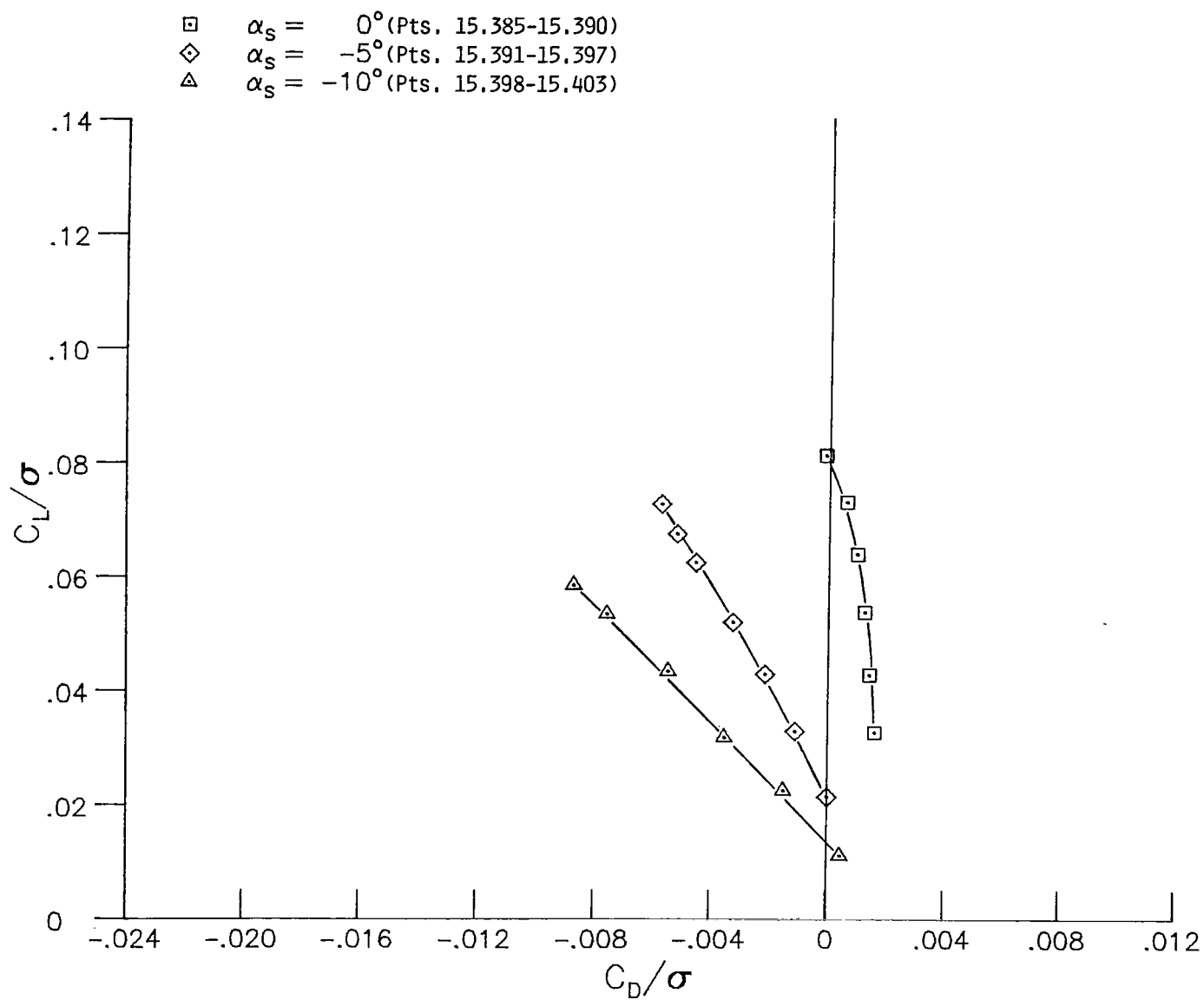
(k) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.65$.

Figure 11.- Continued.



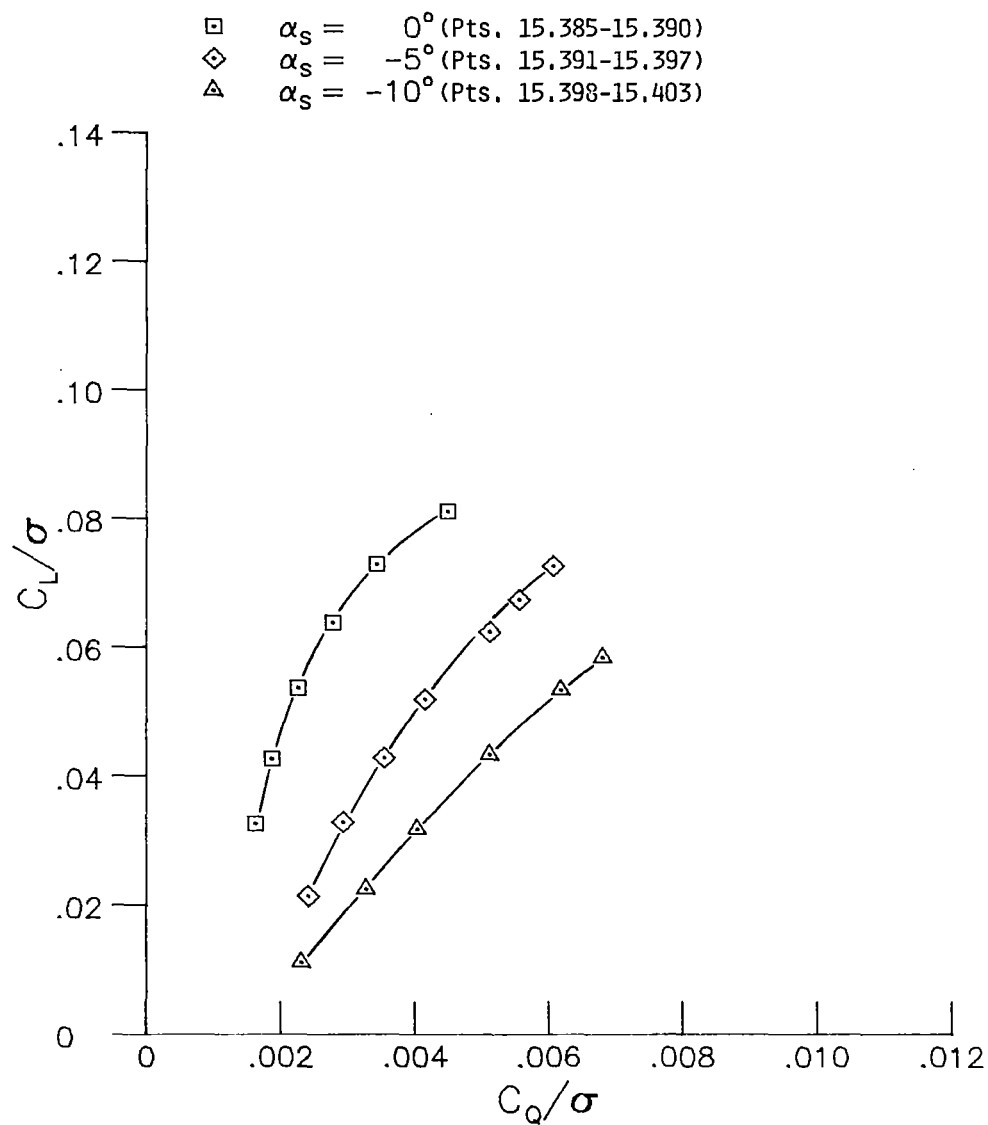
(1) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.65$.

Figure 11.- Continued.



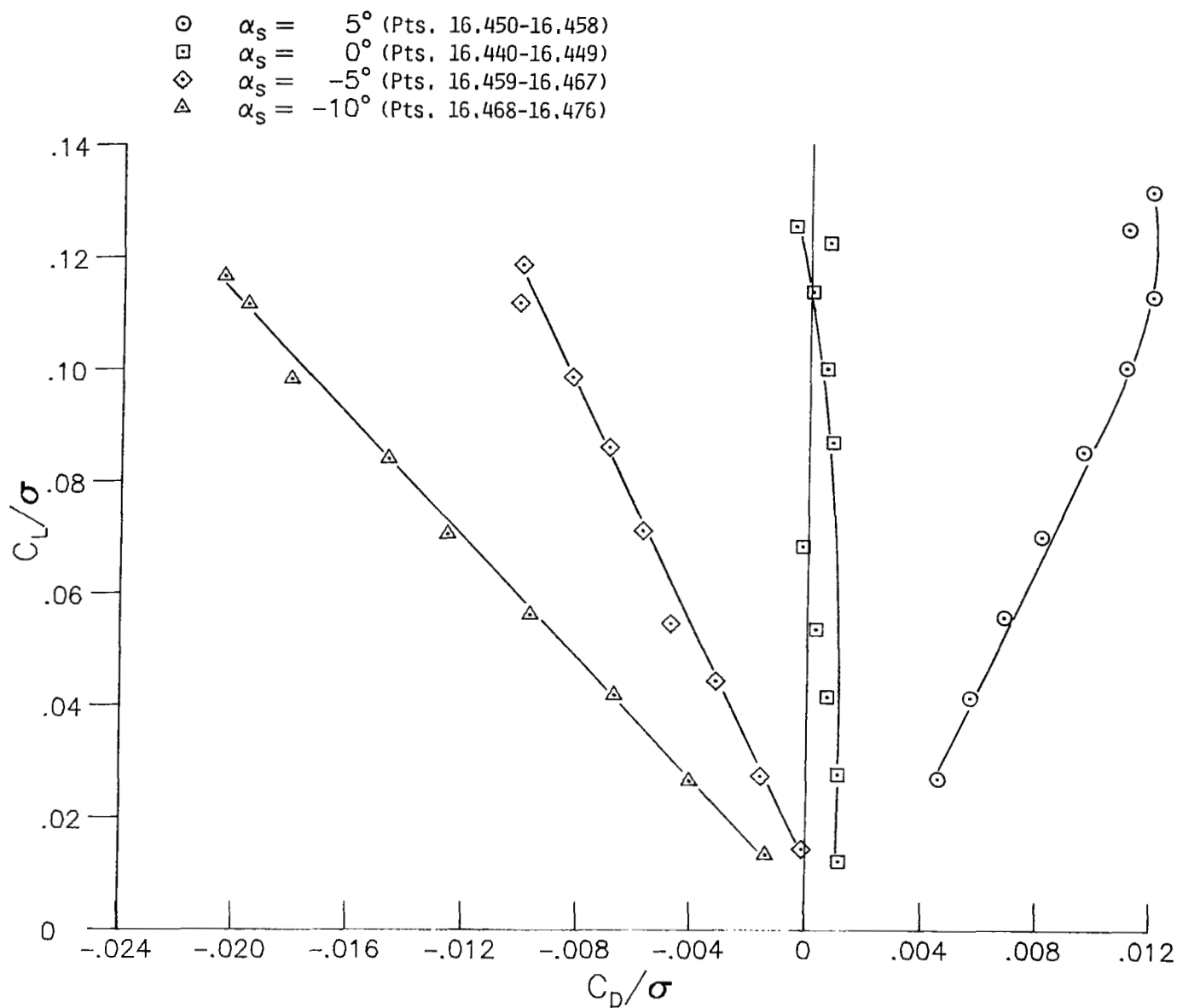
(m) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.68$.

Figure 11.- Continued.



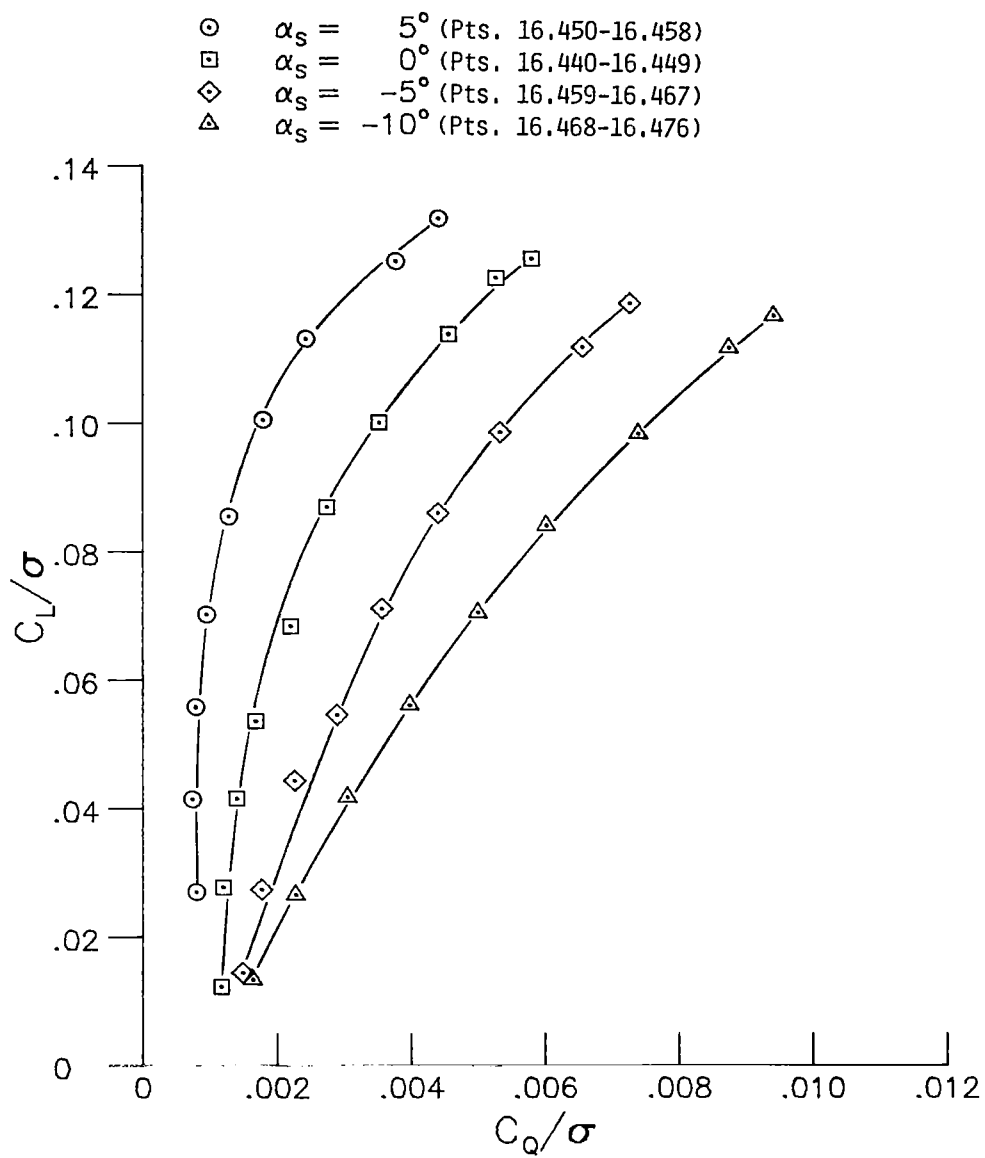
(n) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.68$.

Figure 11.- Concluded.



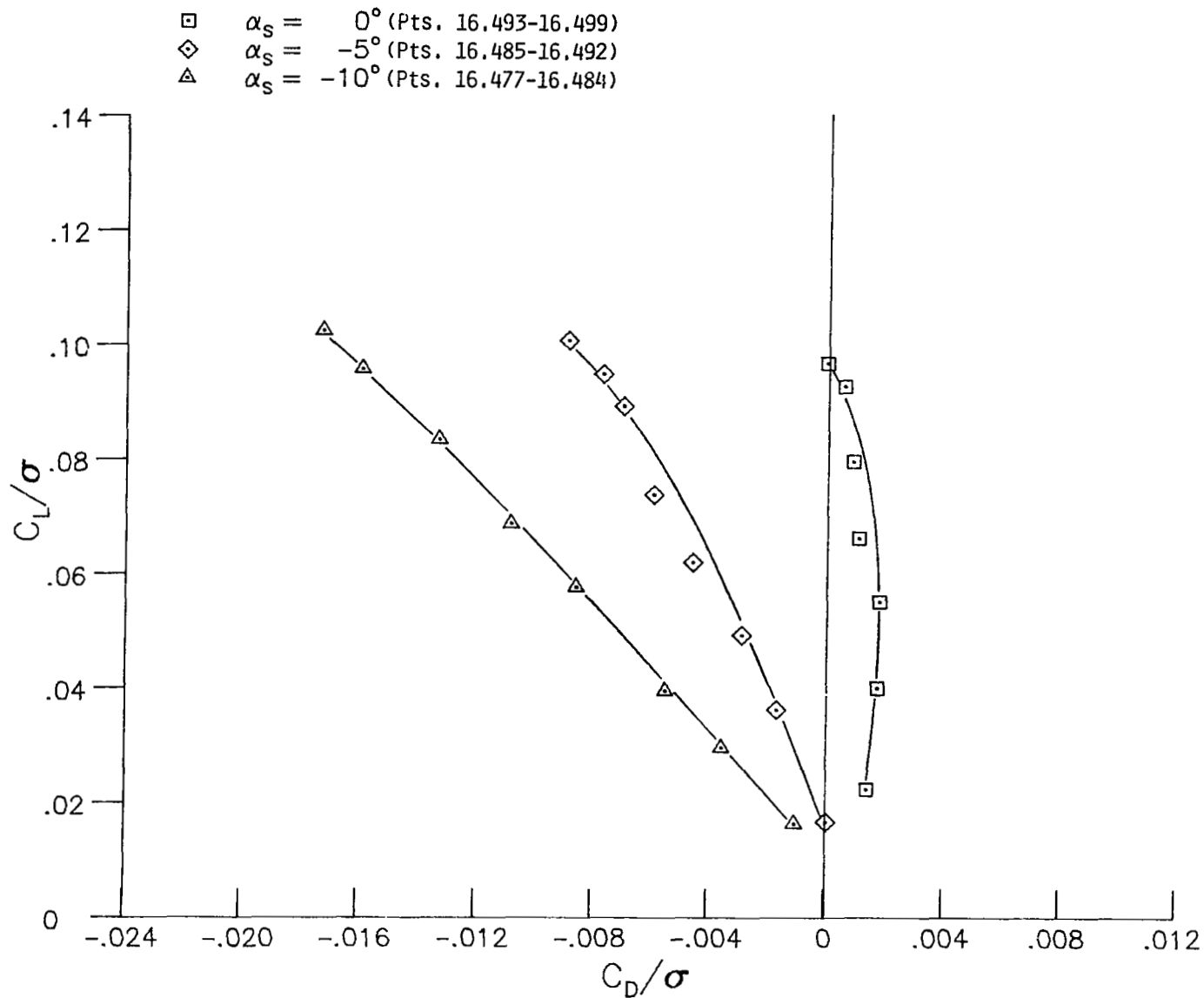
(a) C_L/σ versus C_D/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 12.- Rotor performance data for baseline blade with swept tip and 0° tabs.



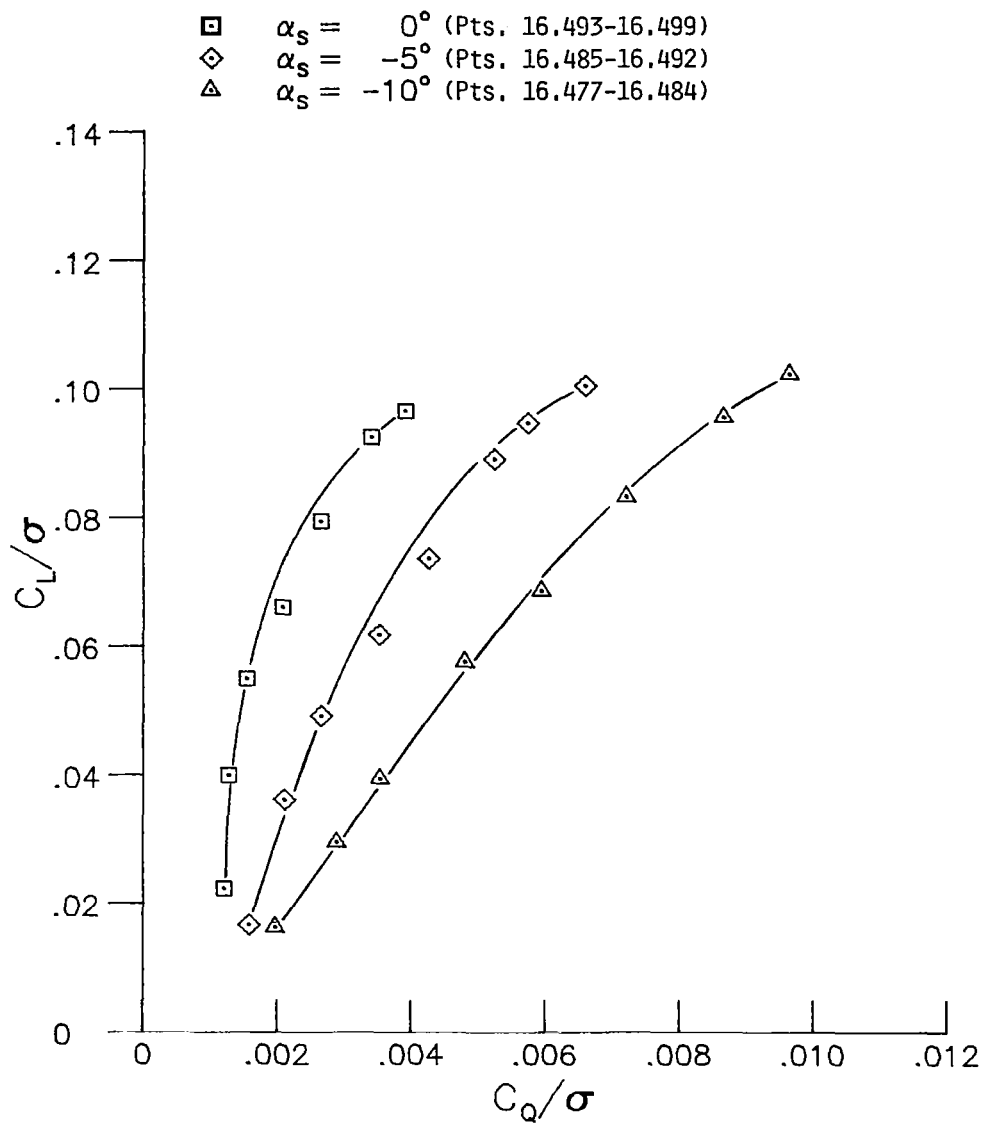
(b) C_L/σ versus C_Q/σ at $\mu = 0.20$ and $M_T = 0.65$.

Figure 12.- Continued.



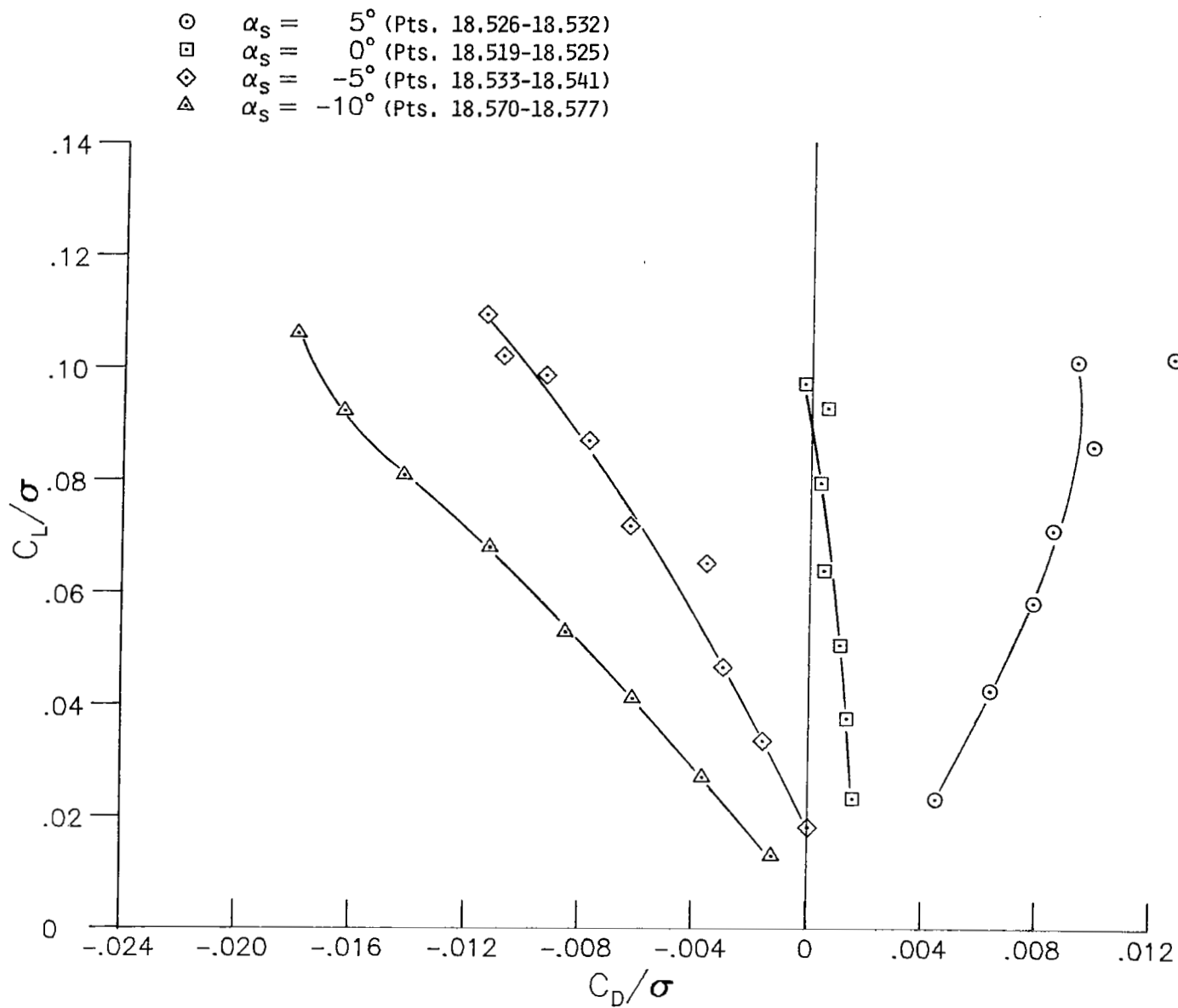
(c) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.62$.

Figure 12.- Continued.



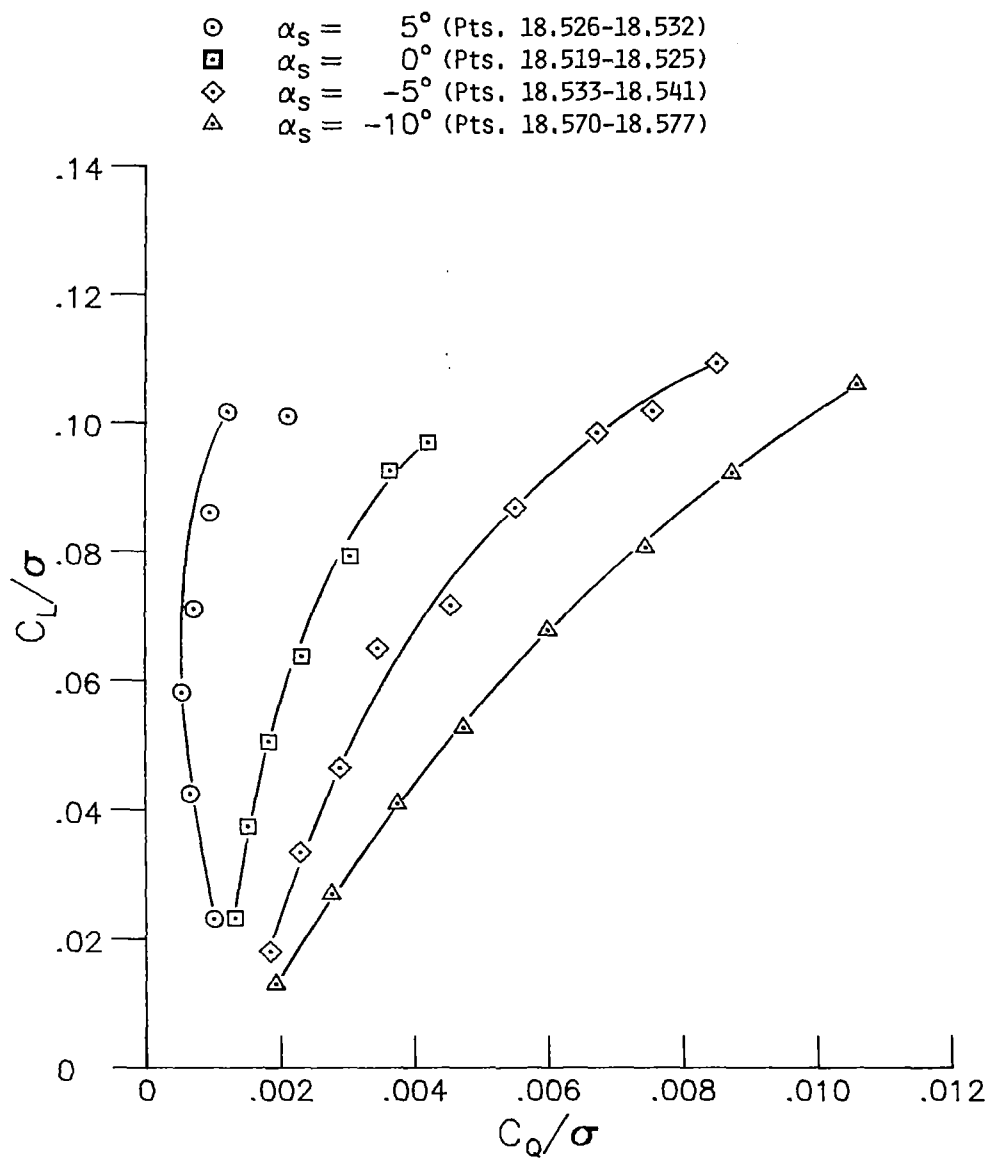
(d) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.62$.

Figure 12.- Continued.



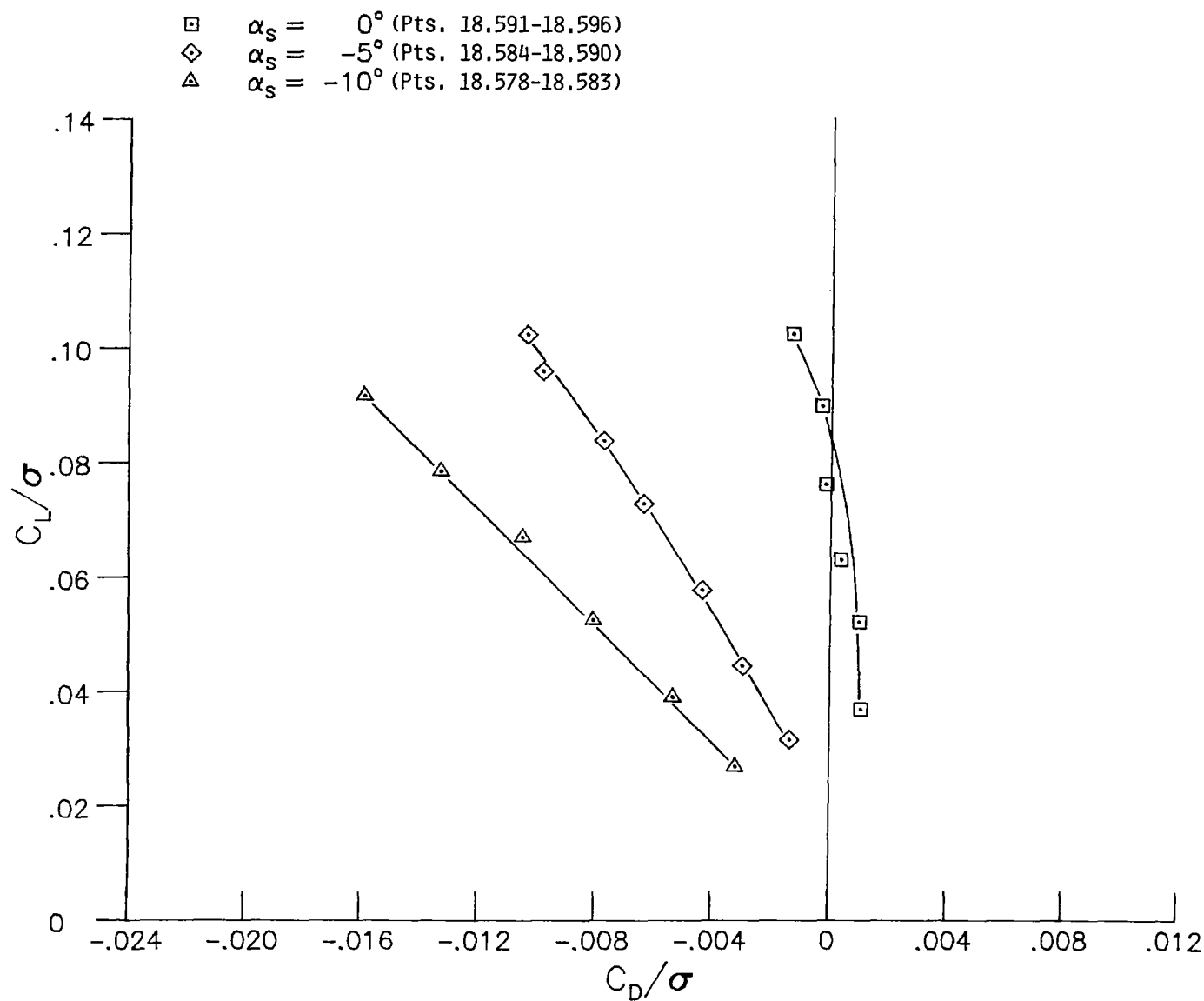
(e) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 12.- Continued.



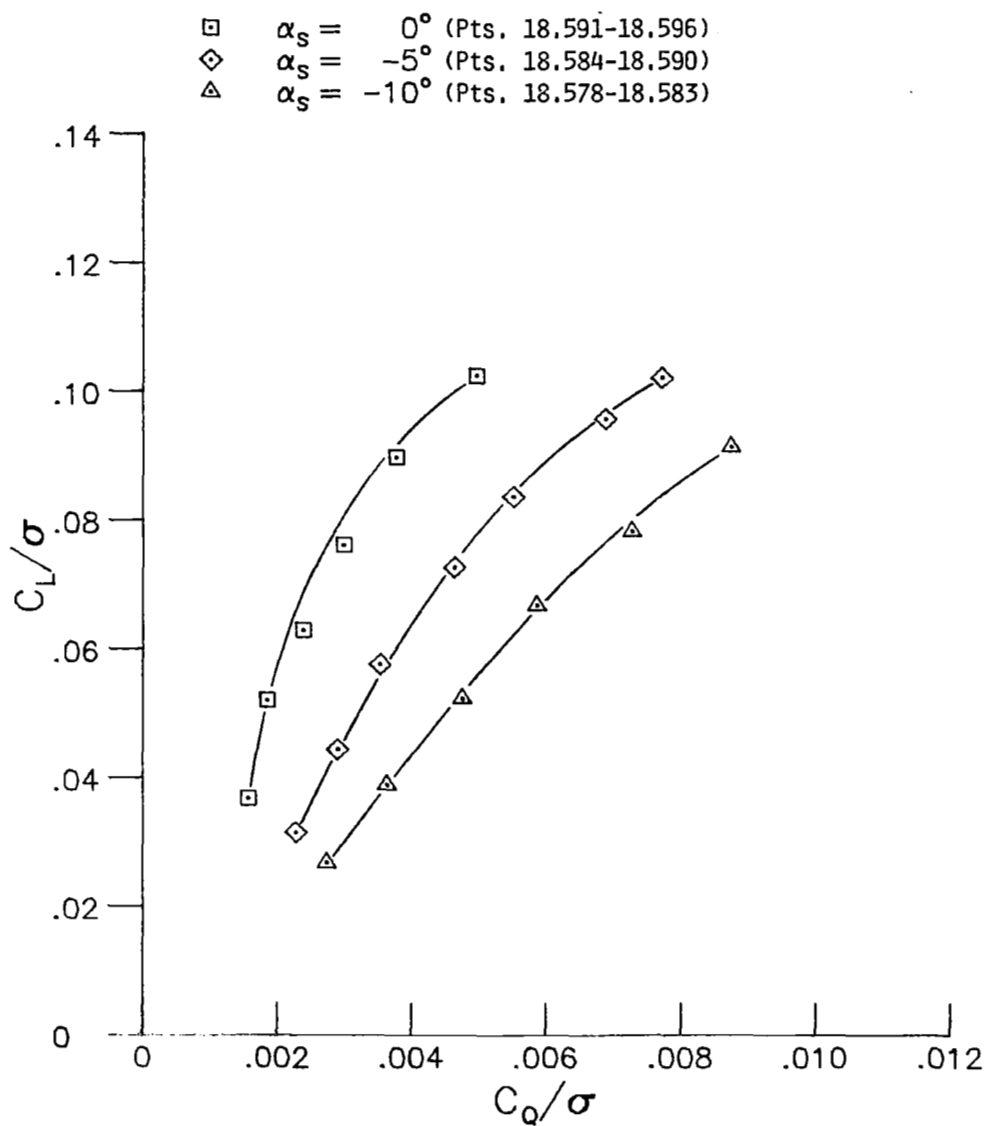
(f) C_L/σ versus C_Q/σ at $\mu = 0.30$ and $M_T = 0.65$.

Figure 12.- Continued.



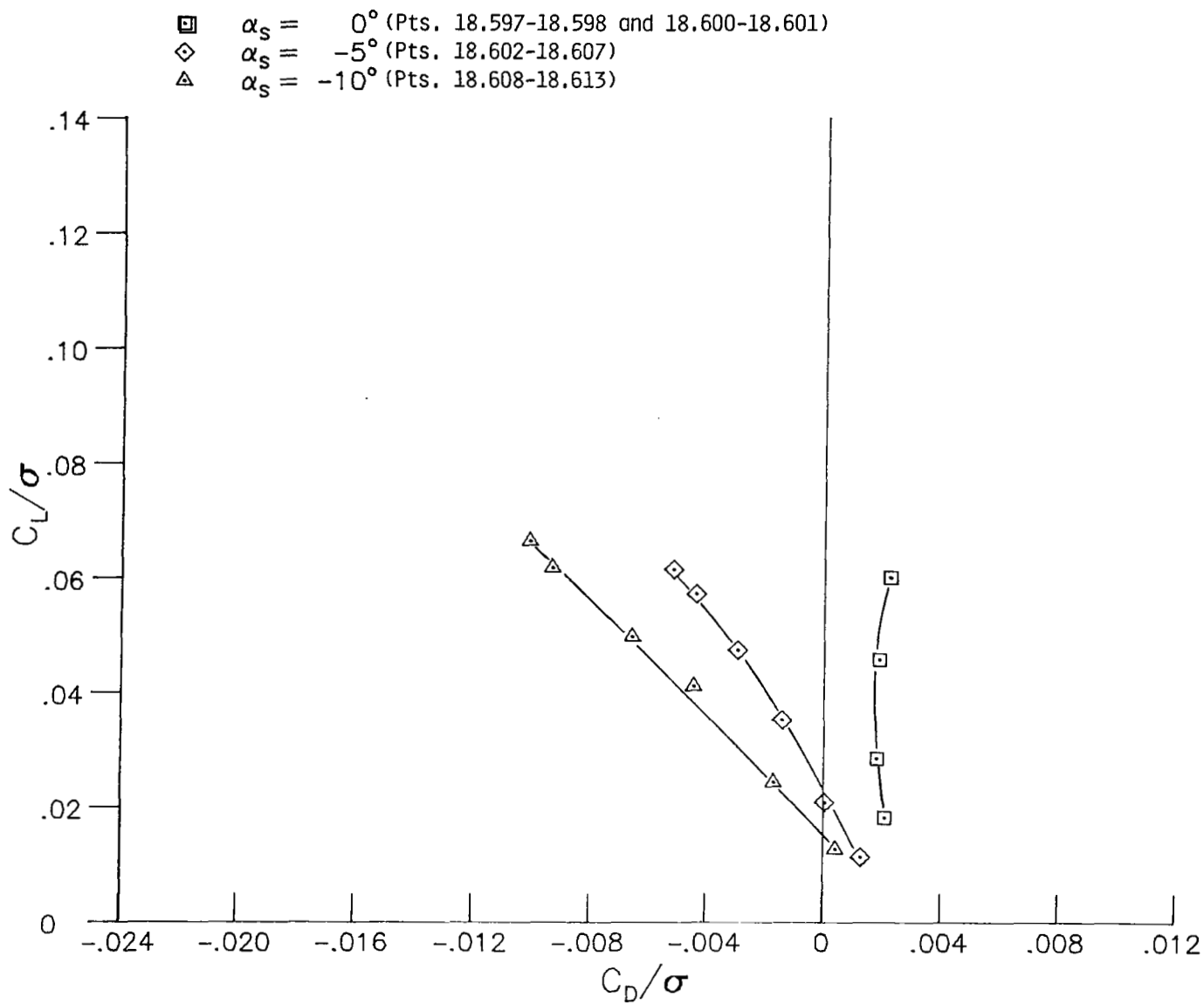
(g) C_L/σ versus C_D/σ at $\mu = 0.30$ and $M_T = 0.68$.

Figure 12.- Continued.



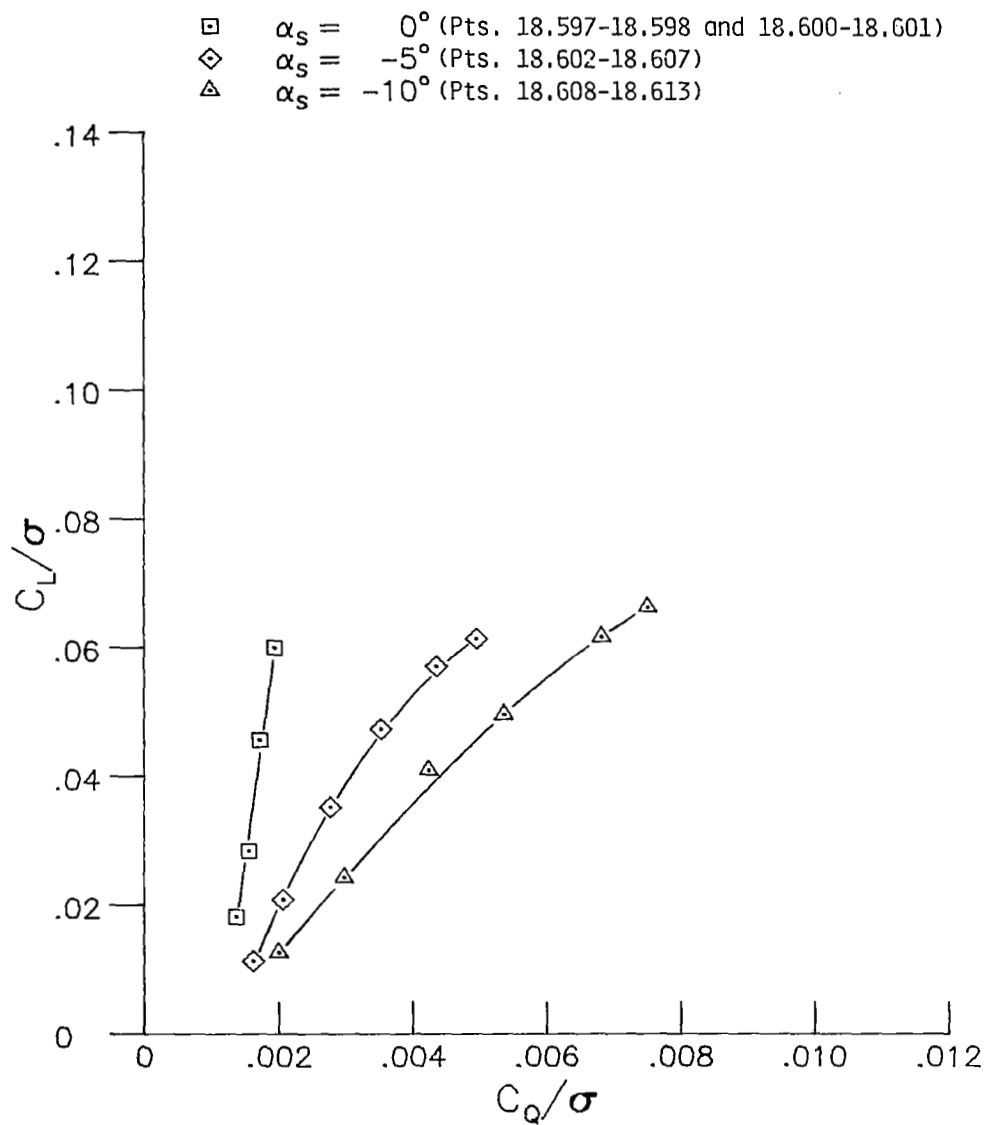
(h) C_L/σ versus C_Q/σ for $\mu = 0.30$ and $M_T = 0.68$.

Figure 12.- Continued.



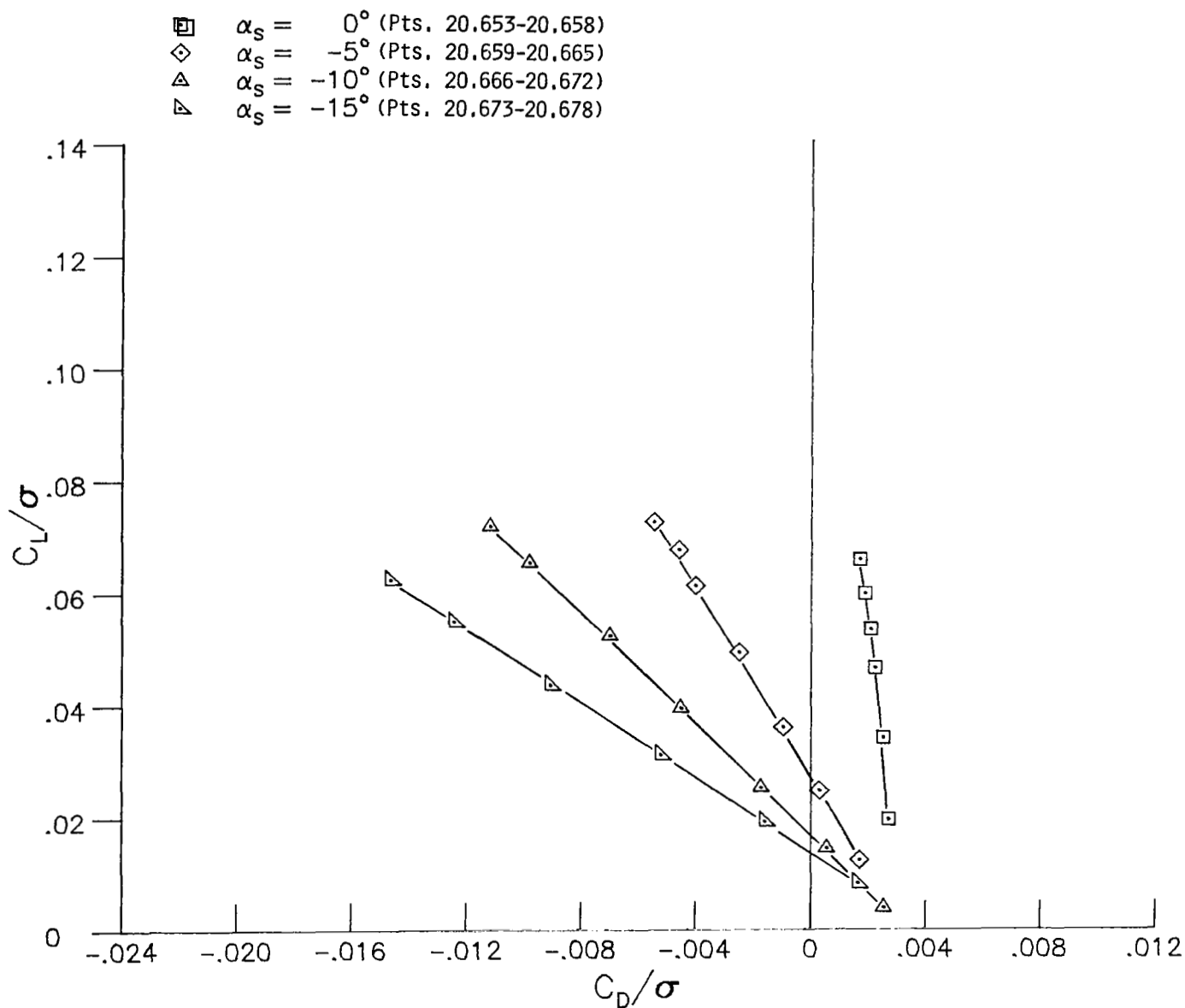
(i) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.62$.

Figure 12.- Continued.



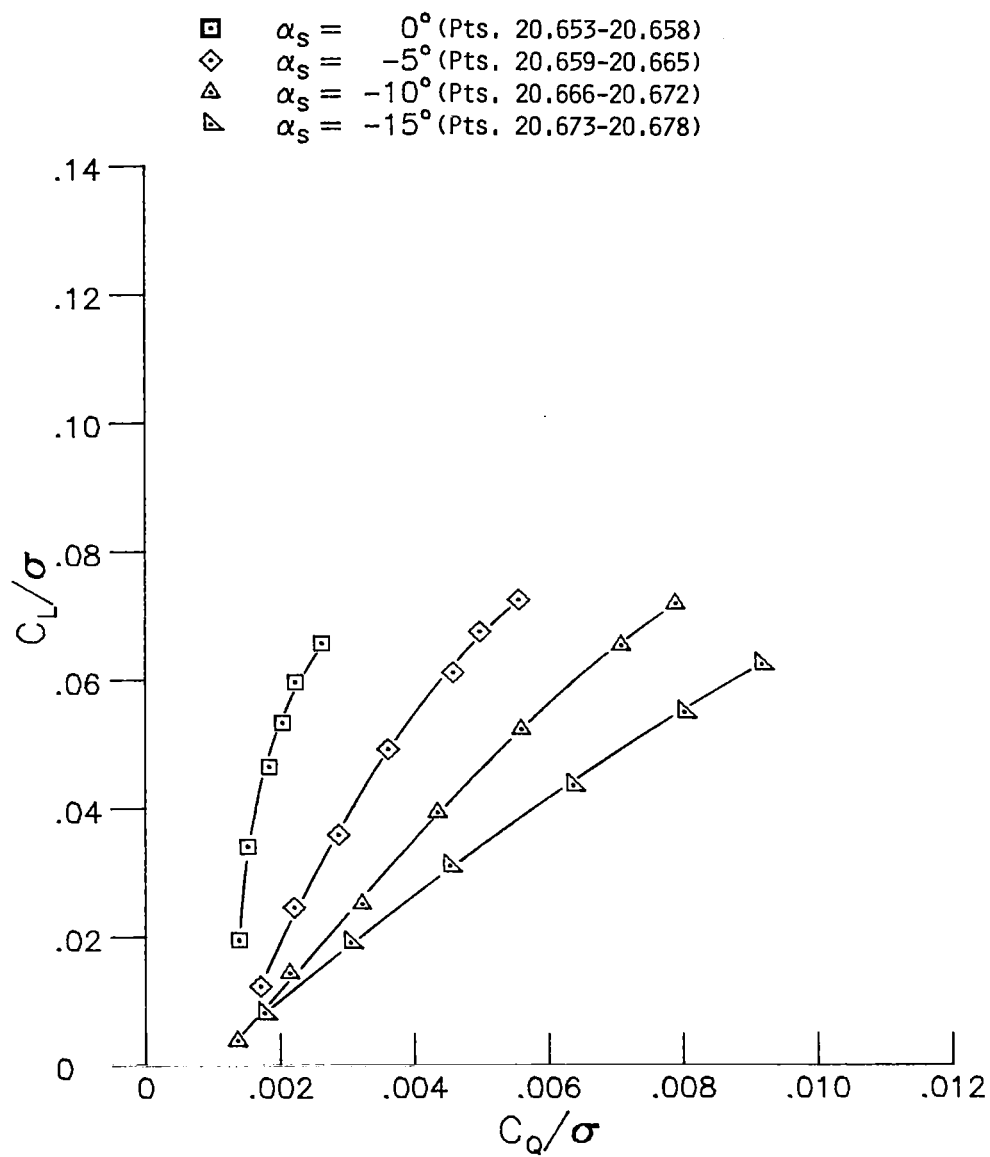
(j) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.62$.

Figure 12.- Continued.



(k) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.65$.

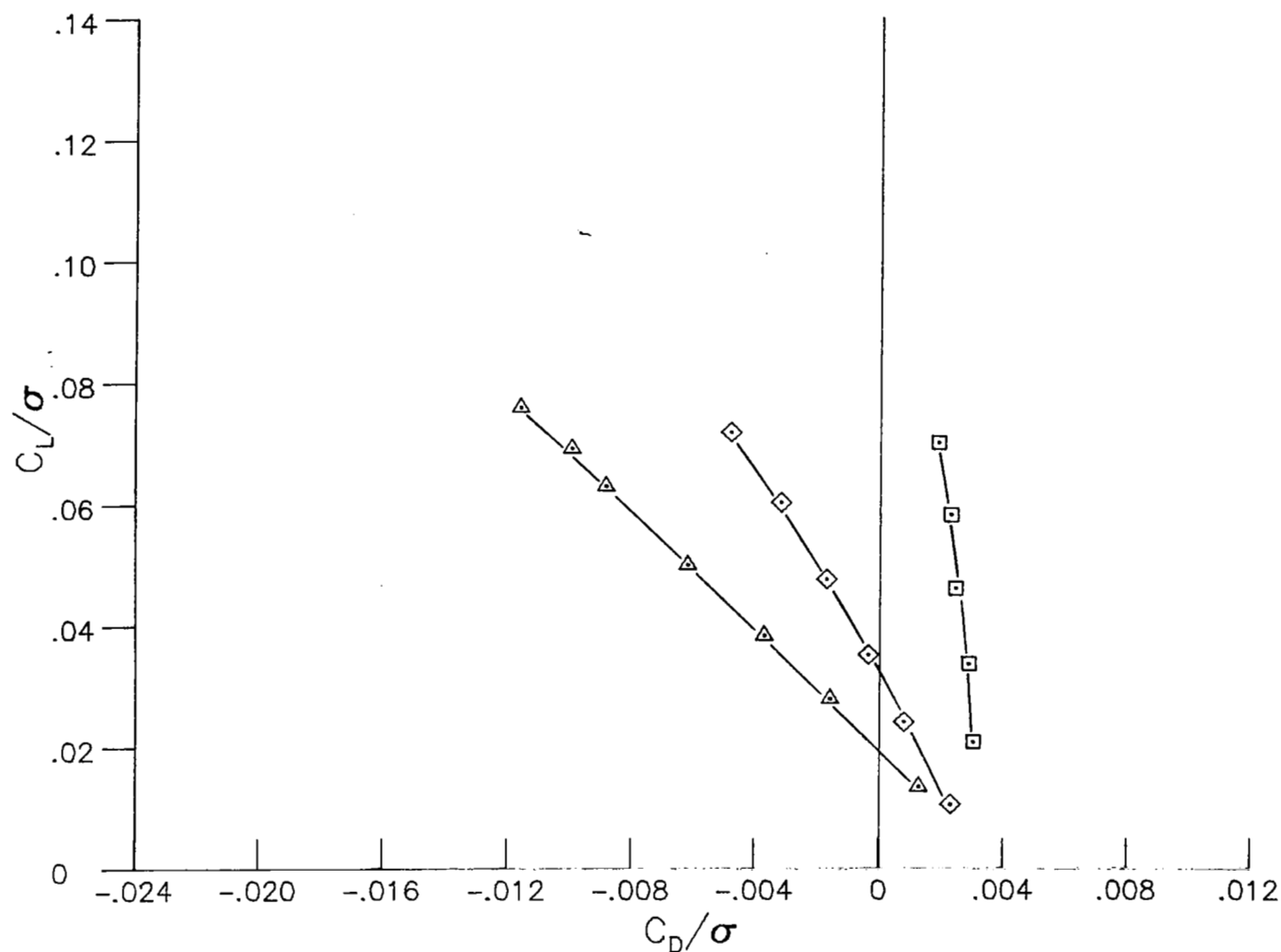
Figure 12.- Continued.



(1) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.65$.

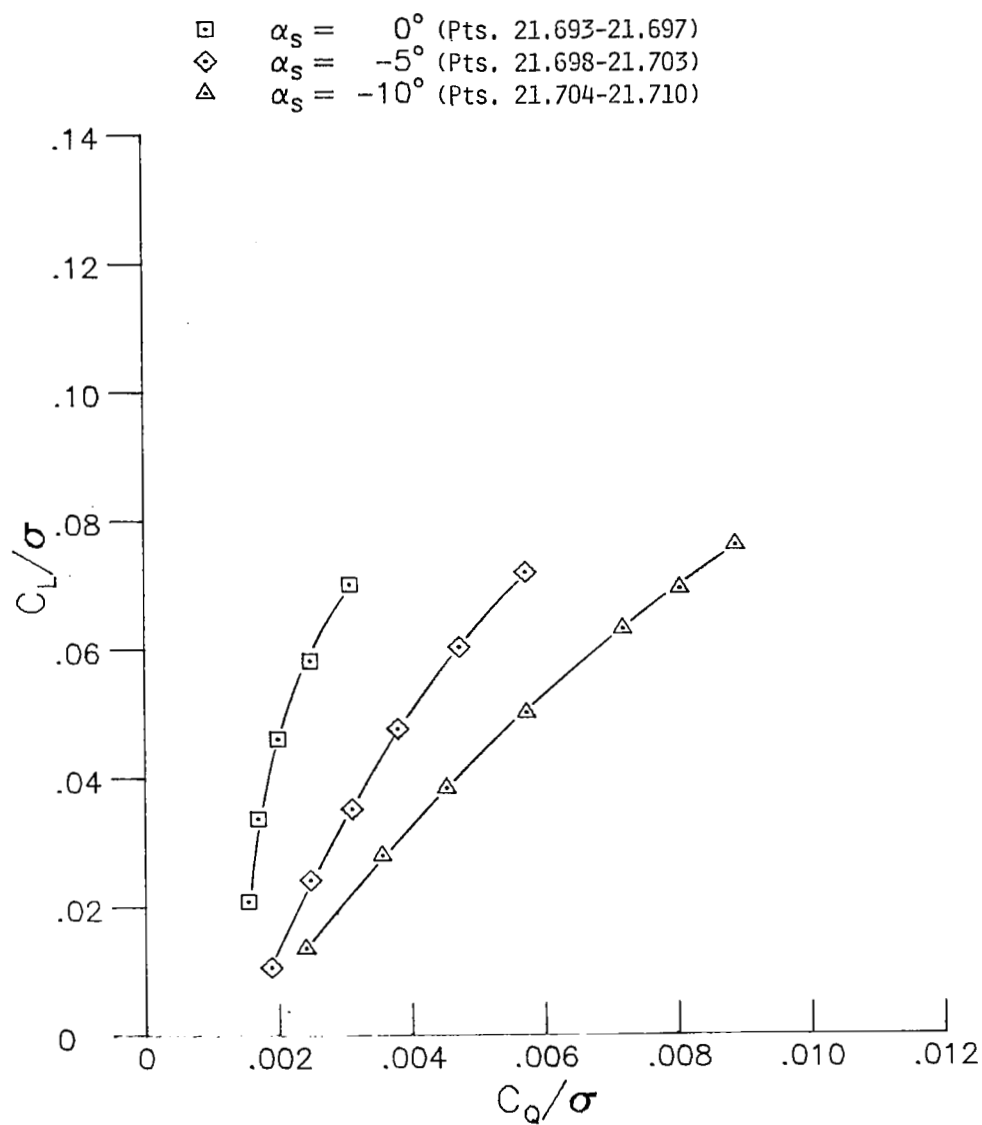
Figure 12.- Continued.

- \square $\alpha_s = 0^\circ$ (Pts. 21.693-21.697)
 \diamond $\alpha_s = -5^\circ$ (Pts. 21.698-21.703)
 \triangle $\alpha_s = -10^\circ$ (Pts. 21.704-21.710)



(m) C_L/σ versus C_D/σ at $\mu = 0.40$ and $M_T = 0.68$.

Figure 12.- Continued.



(n) C_L/σ versus C_Q/σ at $\mu = 0.40$ and $M_T = 0.68$.

Figure 12.- Concluded.

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| 15. Supplementary Notes William T. Yeager, Jr., and Wayne R. Mantay: Structures Laboratory, AVRADCOM Research and Technologies Laboratories. | | | | | |
| 16. Abstract An investigation was conducted in the Langley Transonic Dynamics Tunnel to evaluate a passive means of tailoring helicopter rotor blades to improve performance and reduce loads. The parameters investigated were blade torsional stiffness, blade section camber, and distance between blade structural elastic axis and blade-tip aerodynamic center. This offset was accomplished by sweeping the tip. The tests were conducted at advance ratios of 0.20, 0.30, and 0.40. Data are presented without analysis. | | | | | |
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